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FLORIDA INTERNATIONAL UNIVERSITY
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FLORIDA INTERNATIONAL UNIVERSITY

A
MEMBER INSTITUTION
OF
THE STATE UNIVERSITY SYSTEM OF FLORIDA

TAMIAMI TRAIL • MIAMI, FLORIDA 33144

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Message From the President

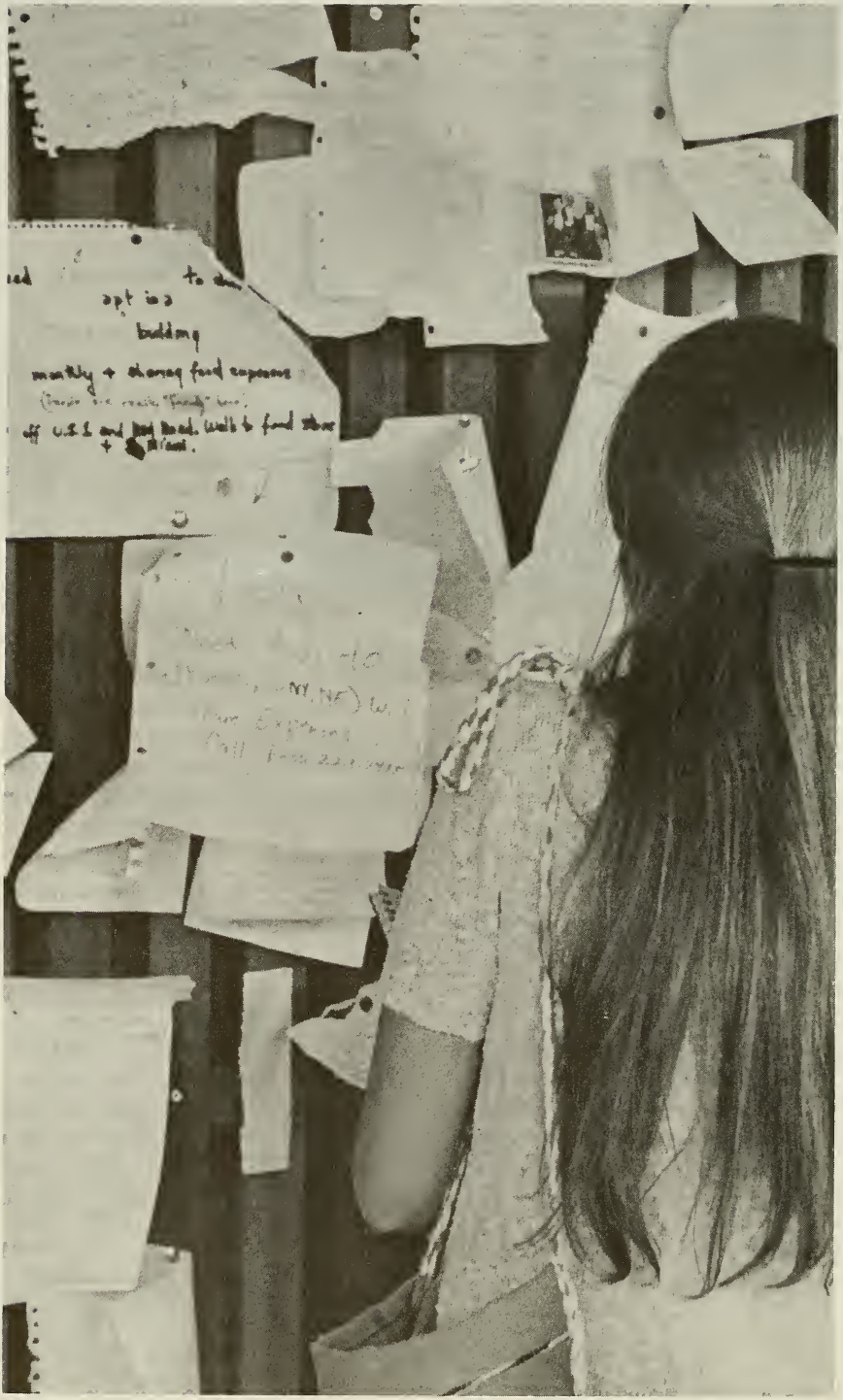
It is my sincere hope that the student's experience at Florida International University will be both exciting and rewarding. For each individual, the rewards will vary, but the University is dedicated to helping every student to:

- Obtain a high quality education.
- Prepare for and excel in a chosen profession.
- Develop an intellectual spirit for constructive thought and action in building a better society—both nationally and internationally.
- Create a real desire and a strengthened foundation for a lifetime of learning.

To assist the student in achieving these goals, Florida International has attracted a distinguished faculty with a deep and dedicated desire to teach—faculty members who are student-oriented, who are able to communicate and to respond to the changing requirements of the student, and who have the ability to teach effectively in an ever-changing world.

This catalog represents our attempt to present Florida International University in a manner that will serve the needs of our students as well as the many others requiring general information about the University.

Charles E. Perry
President


apt in a
building
monthly + money fund expenses

General Information

The student — both as an individual and as part of the total teaching-learning environment — has been a primary concern behind the development of Florida International University.

In addition to serving the traditional student age groups, the University reaches out to provide specialized educational programs for persons of varying ages and interests. It also affords an opportunity for students who are unable to attend regular classes to obtain a Baccalaureate degree through a combination of independent study, media programming, testing, seminars and short courses in locations away from the campus.

Since the theory and mechanics of formal course work are understood better when applied to the situations of real life, students are encouraged to engage in related community endeavors. Thus, theory tested in practice is available to students before graduation, helping Florida International to become a "university without walls."

Regardless of what career in life a student may choose, the social problems related to it must be known and understood, and programs at Florida International have been developed with this in mind. Environmental problems are stressed, with studies designed to aid students in learning how to live responsibly and with a concern for the quality of life.

GOALS OF FLORIDA INTERNATIONAL

Throughout all its programs, the University adheres to three major goals:

Education of Students — To provide a university education for qualified students which (a) prepares them for useful careers in education, social service, business, industry, and the professions; (b) furnishes them with the opportunity to become effective members of the society; and (c) offers them an appreciation of their relations to their cultural, aesthetic and technological environments.

Service to the Community — To serve the greater community, with a primary emphasis on serving the Greater Miami and South Florida area, in a manner which enhances the metropolitan area's capability to meet the ecological, cultural, social and urban challenges which it faces.

Greater International Understanding — To become a major international education center with a primary emphasis on creating greater mutual understanding among the Americas and throughout the world.

HISTORY

Senator Ernest R. Graham (1885-1964), State Senator from Miami, introduced a bill for a State University in Dade County in 1943. It was 29 years later that Florida International opened.

It was created by an act of the State Legislature June 22, 1965. On July 11, 1960 the Florida Board of Regents named this upper level institution Florida International University and appointed the Vice-Chancellor of the State University System of Florida, Charles E. Perry, as President. At 32, Dr. Perry became the youngest state university president in the history of Florida.

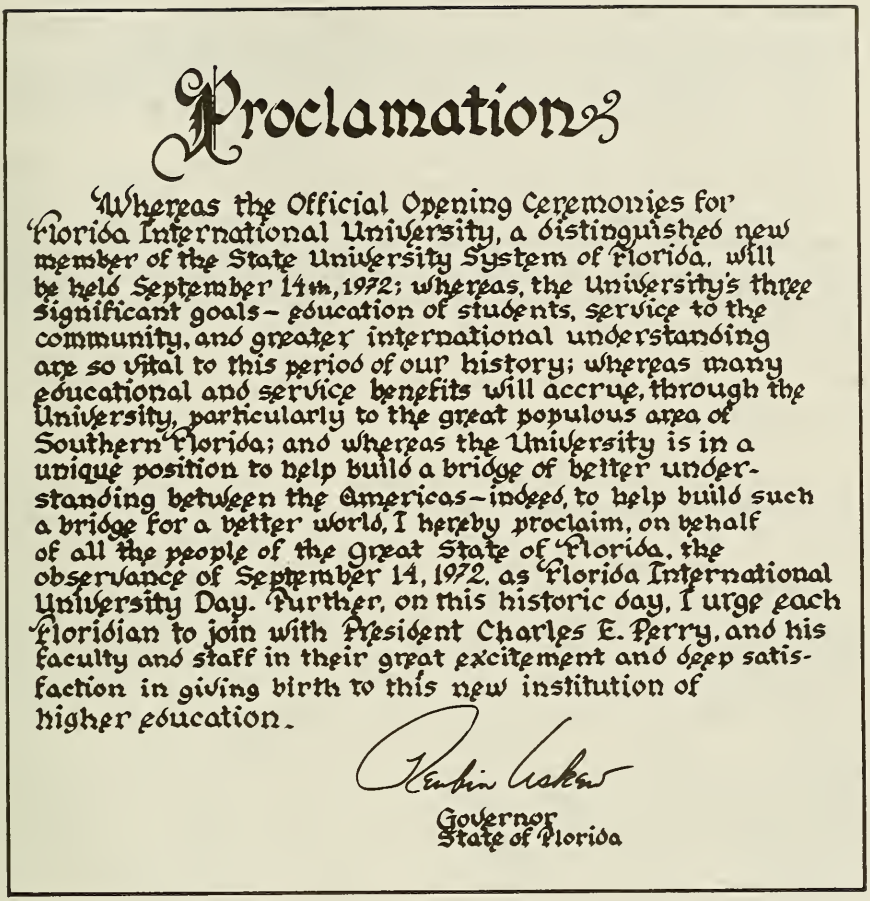
On September 2, 1969, President Perry moved his founding corps into an abandoned control tower of the former Tamiami Airport on the Tamiami Trail, ten miles west of downtown Miami. The 344 acres adjacent to Tamiami Regional Park, provided by the people of Dade County, were largely barren except for some small metal sheds and concrete buildings.

On September 19, 1972, three years and 17 days later, classes at Florida International began for 5,667 students, the largest first-year enrollment of any college or university in the history of the United States. That enrollment has grown to over 9,000 in its second year.

INTERAMA CAMPUS

A second campus of Florida International, the Interama Campus, is in the planning stage. The 1970 State Legislature allocated up to 400 acres of the Interama site, which is situated east of U.S. 1 between 135th and 163rd Streets, for Florida International University.

Planning of this second campus is well under way and, with adequate legislative funding, it will open in the fall of 1976—the Bicentennial year.



Proclamation

Whereas the Official Opening Ceremonies for Florida International University, a distinguished new member of the State University System of Florida, will be held September 14th, 1972; whereas, the University's three significant goals – education of students, service to the community, and greater international understanding are so vital to this period of our history; whereas many educational and service benefits will accrue, through the University, particularly to the great populous area of Southern Florida; and whereas the University is in a unique position to help build a bridge of better understanding between the Americas – indeed, to help build such a bridge for a better world, I hereby proclaim, on behalf of all the people of the Great State of Florida, the observance of September 14, 1972, as Florida International University Day. Further, on this historic day, I urge each Floridian to join with President Charles E. Perry, and his faculty and staff in their great excitement and deep satisfaction in giving birth to this new institution of higher education.

Reubin Askew

Governor
State of Florida

BUILDING PROGRAM

From the old Tamiami Airport an impressive new campus has grown. And it continues to grow.

Primera Casa, costing $5,678,550, is five stories high and covers an area greater than the playing field of the Orange Bowl. It provides classrooms, laboratories, library and computer facilities, and offices, and is designed to foster a close, student-faculty relationship. With both removable and flexible walls, the building—as is true of the University as a whole—is adaptable to change.

La Deuxieme Maison, costing $3,650,000, is a four-story structure, providing lecture halls, classrooms and offices. With upper stories projecting over walkways and with extensive use of glass, the building has been described as "a bold attempt to bring the outdoors indoors."

University House, the third building, opened with the 1974-75 academic year. This three-story structure erected at a cost of $4,107,000, has become the University Center, with focus on student activities. Besides student recreational

facilities and office areas, there are a bookstore, cafeteria, international conference theatre, and classroom-type auditorium seating 200 persons.

Under construction is a three-story building costing $4,200,000. This structure will provide technology and science laboratories, music and art studios, an experiemntal theatre, and new quarters for the Media Center.

Planning is now under way for a fifth major building, the new home for the Library to be erected at an estimated cost of $4,950,000.

More major buildings are scheduled to follow in rapid order. Keeping pace with building construction are the other development activities of the campus. With lakes and tropical trees and shrubs dotting it, the campus is conceived in the image of South Florida's natural outdoors, and each year this image becomes more pronounced.

THE LIBRARY

The Florida International University Library occupies the entire first floor and a portion of the second floor of Primera Casa. A variety of study space is provided in both formal and informal settings with individual carrels, group study tables, and lounge facilities.

With the fast pace of change in the world, emphasis in developing the resources of the Library has been given to contemporary works and the standard scholarly tools necessary to provide a living, working laboratory for the University community with its international thrust and concern for environmental and urban problems. Some 175,000 volumes comprise the Library collection, in addition to substantial holdings in federal, state, local, and international documents; maps; microforms; music scores; newspapers; institutional archives; and curriculum materials. Multi-media and audiovisual resources, which are housed and serviced by the University Media Center, are cataloged by the University Library and represented in the public card catalog. The Library subscribes to approximately 6,500 scholarly journals and other serials.

The public card catalog, located in the Reference Department, is the key to the holdings of the Library. For ease of use, the catalog is divided into three sections for author, title, and subject entries. Locations for resources in special areas other than the stack tier are indicated by means of plastic overlays on cards in each of the three sections of the catalog. The bulk of the collection is housed in open stacks, freely available for browsing and selecting material to be used.

Classification of Library resources is according to the Library of Congress system except for the depository collection of U.S. government publications, which is arranged by the Superintendent of Documents classification. A separate public catalog is maintained as the key to Library holdings of government documents.

Circulation of library materials is accomplished by means of an automated charging system using the patron's plastic identification card. Control records for circulation, acquisitions, and serials holdings are produced through data processing techniques developed in cooperation with the Southeast Regional Data Center.

In keeping with the University's commitment to day and night operations, the Library is open from 7:30 a.m. to 11:00 p.m. daily, Monday through Friday;

8:30 a.m. to 5:00 p.m. on Saturdays; and 2:00 p.m. to 9:00 p.m. on Sundays, except for designated vacation periods. The Library's facilities are available to residents of the area as well as to all members of the University community.

DATA CENTER

To provide the most readily accessible computer support, resources from Florida International University and Florida Atlantic University have been pooled into a single Data Center for computer services. The Center, which is the first of its kind in Florida, has been charged with extending instructional, research, and administrative computing support to both universities. The pooling of resources has enabled the Data Center to provide far more computing power to both universities than either university could have supported individually.

One of the prime objectives of the Data Center is to provide continuous access to students and faculty for support of instruction, faculty research, and graduate research efforts. This has been achieved by use of current technology and computing equipment, and by assigning greater priority to student and faculty work than routine administrative processing.

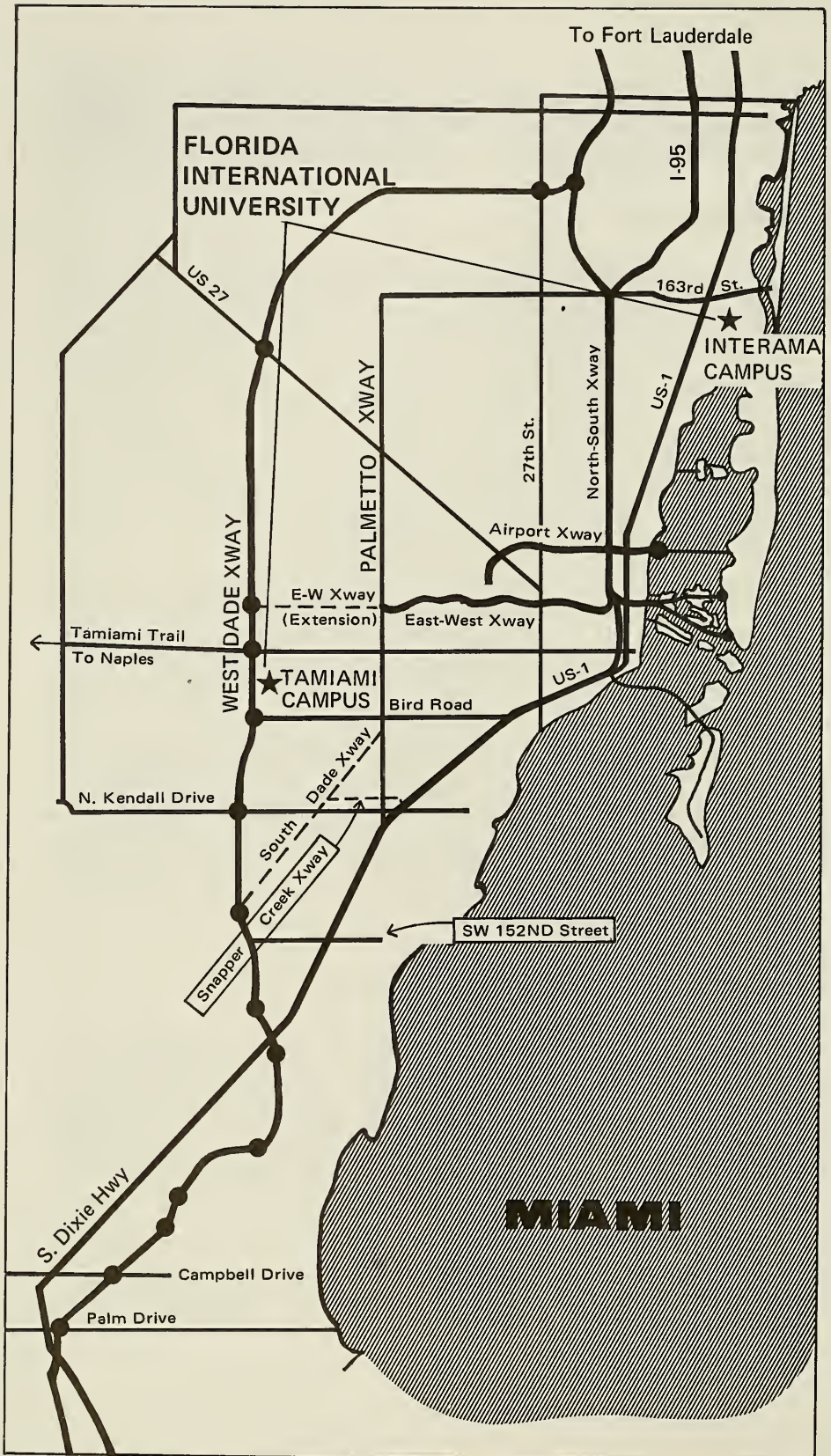
Students have been provided with two modes of computer use. The first is "batch" support in which programs and data are submitted to the computer in cards via a special card reader/line printer device dedicated to that purpose. The second mode is "interactive" support in which students use a typewriter-like device (demand-terminal) to communicate directly with the computer. Several terminals have been provided for this type of use.

An extensive library of programs is available to all Data Center users. This library includes programs for simulation, linear programming, statistical analysis and decision-making games, and is accessible from either mode of operation.

A staff of support personnel is available to assist students and faculty in the use of interactive (demand) terminals, batch facilities and the software library, and for general problem solving associated with their use. The same personnel will also conduct short courses on the use of the programs in the software library.

OFFICE OF INSTITUTIONAL RESEARCH

The Office of Institutional Research is responsible for the research and evaluation related to the internal operations of the University. The reporting and analyzation of statistics for outside governmental agencies, State and Federal, as well as other relevant groups is also done in the Office of Institutional Research. All data generated by and for this office is designed to assist in the operational decision making of long-range planning for Florida International University.


To Fort Lauderdale
FLORIDA INTERNATIONAL UNIVERSITY
I-95
US 27
163rd St.
INTERAMA CAMPUS
US-1
North-South Xway
27th St.
PALMETTO XWAY
WEST DADE XWAY
Airport Xway
E-W Xway
(Extension)
East-West Xway
Tamiami Trail
To Naples
TAMIAMI CAMPUS
Bird Road
US-1
Dade Xway
N. Kendall Drive
South
Creek Xway
SW 152ND Street
Snapper
S. Dixie Hwy
Campbell Drive
Palm Drive
MIAMI

Academic Affairs

Florida International offers a curriculum prepared to respond to the needs of the continually increasing number of people in South Florida. Through its College of Arts and Sciences and its five schools—School of Business and Organizational Sciences, School of Education, School of Health and Social Services, School of Hotel, Food and Travel Services and School of Technology—this curriculum is developed and made available to the student.

Admissions, Registration and Records, Academic Regulations, Fees and Refunds

All academic programs of Florida International University, a member of The State University System of Florida, have the approval of the State Board of Education and the Florida Board of Regents.

Florida International is affiliated with the Southern Association of Colleges and Schools, the American Association of State Colleges and Universities, Association of Upper Level Colleges and Universities, American Association of Collegiate Schools of Business, National Universities Extension Association, Association of Caribbean Universities and Research Institutes, and numerous other educational and professional organizations.

Admission

GENERAL ADMISSION REQUIREMENTS FOR UNDERGRADUATE STUDENTS

Students who have been awarded the **Associate in Arts degree from a Florida public community college** are eligible for admission to Florida International University.

Students who have completed an **Associate in Arts** degree or 90 quarter hours (60 semester hours) of collegiate work from any other accredited institution at an acceptable performance level and who have completed the general education program requirements equivalent to that given in a Florida public community college are eligible for admission.

Students who have been awarded the **Associate in Science** degree from a Florida public community college are eligible for admission as follow:

COLLEGE OF ARTS AND SCIENCES – Depending upon previous academic program, most students will be enrolled directly into specific majors of the College.

SCHOOL OF BUSINESS AND ORGANIZATIONAL SCIENCES – Students will normally enroll initially in the College of Arts and Sciences (Liberal Studies Program). Upon completion of the equivalent of the Associate in Arts degree, students may transfer to the School of Business and Organizational Sciences or pursue the Bachelor of Liberal Studies degree within the College of Arts and Sciences which allows electives to be taken in the School of Business and Organizational Sciences.

SCHOOL OF EDUCATION – Students will normally enroll initially in the College of Arts and Sciences (Liberal Studies Curriculum) to fulfill the equivalent of an Associate in Arts degree program prior to transferring to the School of Education; however, A.S. degree holders may enroll directly into some majors.

SCHOOL OF HEALTH AND SOCIAL SERVICES –
SCHOOL OF HOTEL, FOOD AND TRAVEL SERVICES –
Most students will be enrolled directly into degree programs of their choice. Those students whose prior academic records do not meet the eligibility requirements will need to complete certain preparatory work in the College of Arts and Sciences (Liberal Studies Curriculum) in conjunction with work taken in the appropriate school.

SCHOOL OF TECHNOLOGY – Students who hold the Associate of Science degree may be admitted to the School of Technology directly. Normally, the A.S. degree in an appropriate technical discipline is accepted as full equivalent to the first two years (90 quarter hours credit) of the **Bachelor of Technology** program.

GENERAL EDUCATION REQUIREMENTS

The general education program as defined by the Board of Regents, consists of 54 quarter hours (36 semester hours). Florida International University recognizes the following general education program: 9 quarter hours each in the areas of social science, natural science, English composition and humanities; 4 quarter hours in mathematics, and 14 quarter hours of electives in the above areas. In this connection, the following policies have been established:

- Students who have graduated from a Florida public community college with an Associate in Arts degree shall be considered as having met the general education requirements of Florida International University.
- Students who have met the general education requirements of any institution in the State University System of Florida shall be considered as having met the general education requirements of Florida International University.
- Students who have taken their freshman and sophomore years in a college other than a Florida public community college or at an institution in the State University System of Florida may similarly receive credit for such courses shown on their transcripts as meeting the general education requirements.
- Students may be admitted before completion of an equivalent general education program provided such a program can be completed through an inter-institutional registration arrangement with a Florida public community college or through some other arrangements designed to meet individual needs.

GENERAL ADMISSION REQUIREMENTS FOR GRADUATE STUDENTS

Graduate study at the masters level is available in the School of Education, the School of Hotel, Food and Travel Services and the School of Business and Organizational Sciences. A description of the specific degree programs and the School's academic requirements for admission may be found in the sections describing their respective activities.

Students seeking admission into graduate programs must meet the minimum standards set forth by the Florida Board of Regents. These requirements are:

- A bachelor's degree or equivalent from a regionally accredited university or college.
- A "B" or better average in all work attempted while registered as an upper division student for the baccalaureate degree, OR a total score (quantitative plus verbal) of 1,000 or higher on the Graduate Record Examination or an equivalent score on some other measure specified by the University.

An applicant who does not have a "B" average on his upper level work is required to present a score of 1,000 on the Graduate Record Examination (School of Education and School of Hotel, Food and Travel

Services) or 450 on the Admission Test for Graduate Study in Business (School of Business and Organizational Sciences).

Grades earned at institutions with non-traditional grading systems will be given every consideration at Florida International University. Applicants will not be at a disadvantage; rather, they will be treated equally with students who present grades from institutions with traditional grading systems.

NOTE: All graduate applicants to Florida International — regardless of previous grade-point average — are required to submit the appropriate aptitude test scores. If applying to the School of Education or the School of Hotel, Food and Travel Services, the required test is the Aptitude Test (quantitative and verbal section) of the Graduate Record Examination; if applying to the School of Business and Organizational Sciences, the Admission Test for Graduate Study in Business.

It is possible for an applicant who fails to meet these criteria, but who shows "unusual promise for success" in a graduate program to be admitted on a **Provisional Basis.**

Currently, the Florida Board of Regents, following Legislative directives, has established quotas for graduate enrollment for each of the State Universities. Accordingly, some applicants who meet the requirements and are qualified may have to be denied admission for the particular quarter in which they are primarily interested.

REGULAR ADMISSION PROCEDURE FOR UNDERGRADUATES AND GRADUATES

Applications for admission, catalogs and other admission material may be obtained from the Director of Admissions and Community College Relations, Primera Casa 210, Florida International University, Tamiami Trail, Miami, Florida 33144.

Completed admission application and all supporting credentials must be on file with the Office of Admissions and Community College Relations before a final decision can be made regarding the eligibility of an applicant. The following credentials are required by the Florida Board of Regents for admission:

Application for Admission: A fifteen dollar ($15) non-refundable application fee must accompany the completed application form. The deadline for accepting applications each quarter is contained in the University Calendar at the beginning of the Academic section of this catalog.

Completed Academic Record: Official transcripts must be forwarded to the Office of Admissions by the Registrar of all college-level institutions attended. It is the responsibility of the applicant to initiate requests for necessary transcripts (including final transcripts) from each post-secondary institution attended.

NOTE: Transcripts must be received not later than 15 days preceding the first day of class.

Student Health Form: All students must complete a student health form. Forms will be supplied after students are formally admitted to the University.

GENERAL ADMISSION REQUIREMENTS FOR INTERNATIONAL STUDENTS – UNDERGRADUATES AND GRADUATES

Admission Requirements: International students must meet the regular admission requirements and, in addition, comply with the following:

Application and Fee: A completed admission application must be received by the University at least 6 months prior to the desired entering date together with the non-refundable $15 fee.

Academic Records: Proper transcripts or certified copies of academic records and their English translations validated by an official public translator must also accompany the application.

Proficiency in English: Proficiency in English must be established, if native language is not English. Since the University does not have a program of English as a foreign language, it must have evidence that proficiency is sufficient to immediately begin a full-time, degree-seeking program. The following are accepted ways to verify proficiency:

a) A minimum score of 500 in the Test of English as a Foreign Language (TOEFL). For information write to: The TOEFL Program, Box 899, Princeton, New Jersey, 08540, U.S.A.

b) ELS Language Center Certification of satisfactory completion at the 109 level of proficiency. For information write to: ELS Language Center, c/o Barry College, 11330 N.E. Second Avenue, Miami, Florida, 33161, U.S.A.

c) The ALIGU Test, (American Language Institute, Georgetown University) Washington D.C., 20007.

Declaration and Certification of Finances: A Declaration and Certification of Finances must be completed before the Certificate of Eligibility (Form I-20A) is issued. Upon receipt of application for admission the Declaration and Certification of Finances will be mailed to applicant.

The University is required by immigration authorities to carefully check the financial resources of each student prior to issuing the Form I-20A. Therefore, it is important that applying students know the costs of attending the University and have the necessary support funds for the period of enrollment.

Before completing the Declaration and Certification of Finances, review the estimate of institutional costs and living expenses. All questions in the Declaration and Certification of Finances must be accurately answered to avoid unnecessary delay in processing.

After completing, return document to: Foreign Student Adviser, Division of Student Services, Florida International University, Tamiami Trail, Miami, Florida, 33144, U.S.A.

The Declaration and Certification of Finances must be received by the adviser, at least two months prior to the beginning of the quarter for which student expects to register. If student already is in the U.S., document is due at least one month before the first day of classes.

NOTE: Student will not be granted admission to the University until all academic and non-academic requirements have been met, including the Declaration and Certification of Finances.

Health Insurance: Florida International University requires that all international students purchase health insurance in order to help pay for Major Medical expenses. The health insurance policy should be kept active as long as the student is enrolled at this institution. Information on the most economical plans are available from the Foreign Student Adviser.

Graduate Students: For information about the GRE and ATGSB, write to Educational Testing Service, Princeton, New Jersey, 08540, U.S.A. Information about test center location also may be obtained in the American Embassy in students home country.

Tuition: An International student is considered a non-resident, and as such will be charged a fee of $540 per quarter (undergraduate) and $590 per quarter (graduate). Fees subject to change.

NOTE: Opportunities for financial assistance are limited if you are not a resident alien or a U.S. citizen.

Full-Time Enrollment: Non-immigrant alien students on visa are required by United States Immigration regulations to be enrolled full-time. They should make satisfactory progress toward their Bachelor or Master degree program objectives each term. Otherwise the continuation of study on a student visa may be jeopardized. Full-time enrollment for students on an F-1 visa (student visa) is defined as enrollment in, and successful completion of, a minimum of 15 quarter hours each quarter (undergraduate) and 10 hours each quarter (graduate).

United States Department of Justice, Immigration and Naturalization Service Law and Regulations: It is the student's responsibility to comply with all non-immigrant alien requirements as stated under the United States laws under Section 101 (a) (15) (f) (i) of the Immigration and Nationality Act. The University is required to report to the Immigration Office non-immigrant alien students who:

a) Do not register at the University at the time expected.
b) Do not carry a full course of studies.
c) Terminate their attendance.

Granting official Extension of Stay (form I-538) is dependent upon the student's academic progress toward the Bachelor or Masters requirements and will not normally be granted for more than one year beyond the original IMMIGRATION OFFICE APPROVED TIME PERIOD.

Employment: F-1 visa students may not be employed while attending the University unless permission has been granted by the U.S. Immigration and Naturalization Service. Normally, employment will not be permitted, especially during the student's first year of enrollment. Only under very special circumstances because of unexpected conditions or emergencies which arise after the student's arrival, will an international student be recommended for a work permit. Adequate proof must be presented to the Foreign Student Adviser in order to obtain the necessary authorization from the institution.

For further information, including test center locations, please refer to the American Embassy in home country.

TRANSFER CREDIT

All college-level academic courses successfully completed at an accredited college or university will be considered for transfer credit at Florida International University. Students who earn an Associate in Arts degree at a Florida public community college will be credited with at least 90 quarter hours (60 semester hours) toward a baccalaureate degree. Other students will have their transcripts evaluated, and such credit as is applicable toward the degree being sought will be granted. (See Limitations on Transfer Credit under heading Academic Regulations.)

Registration

REGISTRATION PROCEDURES

After official notification of acceptance to the University, students will be eligible to register for classes. Notification of procedures for registration will be mailed to new students.

SPECIAL (NON-DEGREE SEEKING) STUDENTS

The Special Student classification is primarily designed for men and women living in the Greater Miami areas who are not interested at the time of registration in working toward a degree at Florida International University. The following regulations will apply to those registered as Special Students:

- A Special Student is not required to meet the usual admission requirements of the University. As such, a Special Student is not officially admitted to the University and registration as a Special Student in no way implies future admission as a regular, degree-seeking student.
- A Special Student is required to complete a Non-Degree Registration Form each quarter.
- Registration is on a space-available basis, and is completed through Preregistration, on Change Day or during Late Registration (Late fee $25.00).
- Credits earned as a Special Student will not be counted toward a degree at Florida International unless the student involved subsequently applies for regular admission and is accepted as a graduate or undergraduate student.
- The number of credits earned in the Special Student category which may be applied toward a degree is limited as follows:

  Graduate Level . . . . . 15 credit hours
  Undergraduate Level Work . . . . . 20 credit hours

If a Special Student is in due course admitted to a degree program, the credit earned (within the limits above) may apply toward a degree, if in the judgment of the Dean of the School involved (or his designee) the course(s) is (are) germane to the degree sought and the performance(s) was (were) at an acceptable level.

- A Special Student who desires to change to a regular, degree-seeking student must apply for admission to the Office of Admissions.
- Regular rules of scholarship will apply to Special Students.
- A Special Student is not assigned a faculty adviser; however, advice concerning particular courses is available from the Office of the Dean of the School or College in which the course(s) is (are) offered.

DUAL REGISTRATION

Florida International students who have paid full registration fees may take course work at Miami Dade Community College without paying additional fees. Directions and forms for dual registration are available from the Office of Registration and Records.

VETERAN'S INFORMATION

The Office of Registration and Records will assist students eligible for veterans' benefits during their enrollment at the University. Any student in doubt concerning his eligibility should contact this office to avoid any loss of veterans' eligibility and benefits. Veterans who desire personal counseling should contact the Office of Student Services.

Academic Regulations

NOTE: Questions concerning the University's regulations should be directed first to the student's present academic adviser. Subsequent concerns may be directed to the appropriate Florida International Academic Dean and/or the Office of Registration and Records.

CREDIT

The word **credit** as used in this catalog refers to one hour of coursework per quarter.

DEGREE REQUIREMENTS

Florida International University will confer the **Baccalaureate Degree** when the following conditions have been met:

- Certification by the Dean of the College/School concerned that all requirements of the degree being sought have been completed.
- Recommendation of the Faculty of the College/School awarding the degree.
- Successful completion of a minimum of 180 credit hours.
- Completion of the last 45 credit hours at Florida International University.

Florida International University will confer the **Master's Degree** when the following conditions have been met:

- Certification by the Dean of the College/School concerned that all requirements of the degree being sought have been completed.
- Recommendation of the faculty of the College/School awarding the degree.
- Successful completion of 90 quarter hours for degrees requiring two years of work and 45 quarter hours for those requiring one year of work.

NOTE: Normally, a minimum of 35 quarter hours must be completed at Florida International University for a 45-quarter-hour program and 75 quarter hours for a 90-quarter-hour program.

GRADING SYSTEMS

The Florida Board of Regents has approved two grading systems for Florida International University.

- An ABC/NO CREDIT system is used in the College of Arts and Sciences, School of Business and Organizational Sciences, School of Hotel, Food and Travel Services, and School of Technology.

- An HONORS Credit (HC), CREDIT (CR), NO CREDIT(NC) system is used in the School of Education, the School of Health and Social Services and the Division of Independent Studies.

NOTE: The **HC** grade is not utilized in all courses.

HC/CR/NC GRADING SYSTEM

CR — Student demonstrated all competencies required for successful completion of the course.

HC — Student excelled in demonstrating all competencies required in the course.

NC — No Credit (see reasons for NC grade below)

AU — Student audited course for zero credit hours.

WI — Student withdrew from University during quarter.

NOTE: There are no quality point values for the grades in the HC/CR/NC grading system.

ABC/NC GRADING SYSTEM

C — Student achieved the level of knowledge and skill required.
B — Student achieved at a higher level than required.
A — Student achieved at a significantly higher level than required.
NC — No Credit (see reasons for NC grade below)
AU — Student audited course for zero credit hours.
WI — Student withdrew from University during quarter.

NOTE: There are no quality point values for the grades in the ABC/NC grading system.

The overall objective of both systems is to enhance the climate of teaching and learning at Florida International by placing primary emphasis on rewards for obtaining knowledge and skills — not on the penalty for failure to do so. Neither system views as productive the recording of the small gain of knowledge and skills usually signified by a "D" grade and accepted as "passing." And, in both systems, failure "F" is eliminated as a meaningful record of performance.

Both grading systems have one thing in common: the No Credit (NC) grade. THE NC GRADE IS NON-PENAL AND SHOULD NOT BE INTERPRETED AS FAILURE. This grade is given to a student who does not earn the credit hours for the course, regardless of the reason. For example, if a student is officially registered for a course at the beginning of the fifth week, he/she will receive an NC grade for any of the following reasons:

1. Course dropped due to heavy class load or work schedule, personal illness, etc. (In these situations, the NC grade is synonymous with a non-penal withdrawal.)
2. Instructor or faculty adviser recommends that student take more time than the normal quarter to complete requirements of the course. (The NC grade in this case is synonymous with an INCOMPLETE.)

3. Progress toward course requirements was sufficient to earn credit hours associated with course. (In this case the NC grade may be removed by repeating the course.)

NC grades are removed from student records when the work is completed to the satisfaction of the instructor in charge.

ACADEMIC SUSPENSION

Academic suspension at Florida International is based on **rate of progress.** In traditional A, B, C, D, F quality-point-based grading systems, academic suspension is based on **failure,** usually some arbitrary, fixed-point such as quality-point deficits. Although there is not a fixed-point for academic suspension, there is a specific point at which a student is required to have an **Academic Progress Conference.** The purpose of this conference is to provide an opportunity for the student and his faculty advisor to take an in-depth look at the student's lack of progress and to determine, to the extent possible, the reason(s) involved. The Academic Suspension regulations are as follows:

- A student will be suspended from the University when it is determined that he is not making satisfactory progress toward his educational objectives. The decision to suspend a student will not be determined by some arbitrary fixed point such as a specific number of **NC** grades. Rather, such a decision will be made by a faculty-administrative committee within the College or School in which the student is enrolled.
- Any time a student's rate of progress shows that he has not received grades of A, B, C, CR or higher in at least 50% of the credit hours attempted (at Florida International University), he is **required** to have an Academic Progress Conference with his advisor. This rule applies after 25 or more credit hours have been attempted.
- The results of the Academic Progress Conference will be reported to the faculty-administrative committee within the College or School in which the student is enrolled. The committee will then render one of the following decisions: (a) student may continue without restrictions; (b) student may continue with restrictions; or (c) student is suspended from the University.

TWO DEGREES AND TWO MAJORS

TWO DEGREES

Two baccalaureate degrees may be awarded simultaneously when the following conditions have been met:

1. Requirements for two majors have been completed as certified by the appropriate academic units.
2. A minimum of 45 appropriate, quarter hours in addition to the requirements of one degree has been earned.

Graduates from accredited four-year institutions who apply for admission to work toward a second baccalaureate degree must meet the requirements of the

major department which shall include (but is not limited to) a minimum of 45 quarter hours of course work.

TWO MAJORS

Any undergraduate student who elects to do so may carry two majors and work to fulfill the requirements of both concurrently. Upon successful completion of the requirements of two majors, a student will be awarded only **ONE** degree unless a minimum of 45 appropriate, quarter hours in addition to the requirements of the first degree have been earned. In cases where the requirements of two majors have been met and only one degree is involved, a notation denoting both majors will be entered on the transcript.

CHANGE OF MAJOR

A student may change his major by processing a **Request For Change of Major** form. This form is obtainable from the Office of Registration and Records.

CLASSIFICATION OF STUDENTS

Students will be classified by the Office of Registration and Records as follows:

Junior: Through 134 quarter hours credit.
Senior: 135 or more quarter hours credit, but no baccalaureate degree earned at Florida International University or elsewhere.
Post-Baccalaureate: Any student enrolled in graduate-level courses who has earned a baccalaureate degree but is not admitted to a Graduate program.
Graduate: Any student admitted to a Graduate program.
Special Student: Any non-degree seeking student enrolled in undergraduate or graduate level courses.

In terms of credit-hour-load, students are classified as full-time according to the following minimum schedule:

	Undergraduate	Graduate
Fee-Assessment purposes	9 quarter hours*	9 quarter hours*
Credit-Hour Loads	10 quarter hours*	10 quarter hours*
Selective Service	12 quarter hours	
Veterans Benefits (full allowance)	12 quarter hours	12 quarter hours
Veterans Benefits (¾ allowance)	9 quarter hours	9 quarter hours
Veterans Benefits (½ allowance)	6 quarter hours	6 quarter hours
International Students (F-1 Visa)	15 quarter hours	10 quarter hours

**NOTE: Part-time students are those taking less than the figure indicated.*

CLASS LOADS

A typical course load for full-time undergraduate and graduate students is 15 quarter credits; however, a student is considered full-time in terms of a credit-hour load if he is taking at least 10 quarter hours. The University imposes no general restrictions on the upper limit of course loads; however, a course load of more than 20 quarter hours must be approved by the student's faculty advisor and Dean (or his designee).

International students must carry and successfully complete 15 quarter credits each quarter (undergraduate) and 10 quarter hours (graduate) they are enrolled in order to meet the full-time status requirement imposed by the Immigration and Naturalization Service.

FINAL EXAMINATIONS

While the University calendar does not designate specific dates as a final examination period, final course examinations may be given at the discretion of the faculty member teaching the course.

GRADE REPORTS

At the end of each quarter, the Office of Registration and Records mails each registered student a copy of his/her grades.

LIMITATIONS ON TRANSFER CREDIT

Within the framework of the regulations below, undergraduate students admitted to the University will receive credit for all work appropriate to their degree programs. Final determination regarding applicability of transfer credits accepted toward the fulfillment of degree requirements resides with the Dean of the College or School in which a student is enrolled.

- A student transferring from a four-year college may transfer up to 135 quarter hours (90 semester hours), and those transferring from two-year colleges may transfer up to 90 quarter hours (60 semester hours) toward a baccalaureate degree. In individual cases, at the discretion of the appropriate academic dean, a greater number of credits may be transferred.
- Normally, the grade of "D" will be accepted for transfer; however, such coursework in the major field is subject to review and approval by the appropriate dean.
- Normally, credit from non-accredited institutions will not be accepted; however, such credit, when presented, will be considered on an individual basis by the appropriate College or School.
- Credit from military schools will be considered for transfer in accordance with the recommendations of the Turner's Guide 1968 of the American Council on Education.

- Credit from foreign institutions will be considered on an individual basis. Credit will be granted for all work which is applicable toward the degree being sought.

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

The College Level Examination program is designed to measure knowledge in certain subject matter areas of General Education. Two types of tests have been prepared to perform the desired function: The General Examinations and the Subject Examinations.

Because CLEP credit is regarded in the same category as transfer credit, no matter how earned, the maximum transferability of credit under CLEP, both General and Subject examinations combined, is 45 semester (or 67.5 quarter) credits.

Not more than six semester (or nine quarter) credits are to be transferred in each of the five areas of the General Examinations (English, Humanities, Mathematics, Natural Sciences, Social Sciences—History).

NOTE: A student who desires additional information on CLEP should contact the Admissions Office.

CREDIT BY EXAMINATION (Other than CLEP)

Departmental credit by examination is available for certain courses. A student who has already gained knowledge of a subject offered at the University and who wishes to take an examination in lieu of taking the course should discuss the matter with his academic adviser and with the department offering the course.

Awarding departmental credit by examination is the prerogative of each academic unit. To receive credit by examination, a student must be a regular, degree-seeking student.

CREDIT FOR LIFE/WORK EXPERIENCES AT GRADUATE LEVEL

Graduate credit, per se, will not normally be awarded for life experience, nor will life experience credit be used to meet requirements for the Master degree. In cases where a student's life experience would appear to have been sufficient to develop the understanding and skills associated with a course that would otherwise be included in his graduate program of study, he/she will be allowed to register for Independent Study credits and demonstrate competency through development of an appropriate project acceptable to the faculty person who represents that specific area of specialization. Not more than 20 credits of a 45 credit Master degree, nor 30 credits of a 90 credit Master degree, may be so earned.

A student wishing to have this policy waived, wholly or in part, may petition the Dean of the Academic unit to which he/she has been admitted for special consideration and final responsibility for a decision will rest with said Dean.

READMISSION

Returning students are eligible for readmission provided they meet the **CURRENT** regulations. Readmission applications and regulations are available from the Office of Registration and Records.

APPLICATION FOR GRADUATION

Each student who plans to graduate is required to submit to the Office of Registration and Records an Application for Graduation form. This form (supplied by the Office of Registration and Records) should be submitted in accordance with the dates appearing in the Academic Calendar. There is no charge for applying for graduation.

WITHDRAWAL FROM THE UNIVERSITY

A student who wishes to leave the University during the quarter for any reason whatsoever must officially withdraw through the Division of Student Services. Those who wish to drop all courses must officially withdraw from the University. A statement indicating withdrawal from the University will appear on the transcript of a student who officially withdraws from the University during the quarter.

If a student stops attending the University without making proper arrangements, appropriate grades will be assigned to all courses for which he/she is registered.

STUDENT RECORDS

Legislative Act authorizes the Florida Board of Regents, through the State Board of Education, to prescribe the data to be included in student records maintained by a University, and to limit access to such records to the student, his parents or guardians, and members of the professional staff of the University who have need for such information. The President, through designated staff, is authorized to release information from a student's record when required in the discharge of his official responsibilities, when authorized in writing by the student, or when ordered by a court of competent jurisdiction.

DROPPING AND ADDING COURSES

The first week of each quarter is the official drop/add period. During this period, a student may **Add** courses, **Drop** courses (no records kept), **withdraw** from the University (with a fee refund).

After the official drop/add period has ended, a student may **Add** only with the written consent of the instructor teaching the course and the appropriate Academic Dean or his designee; a student may **Drop** without a notation appearing on his transcript record for an additional three weeks. Courses **Dropped** after the first four weeks of classes will receive **NC** grades.

TRAVELING SCHOLAR PROGRAM

The University participates in a traveling scholar program which enables a graduate student to take advantage of special resources available on another campus but not available on his own campus: special course offerings, research opportunities, unique laboratories, and library collections.

A traveling scholar first must be recommended by his graduate advisor, who will approach an appropriate faculty member at the possible host institution in regard to a visiting arrangement. After agreement by the student's advisor and the faculty member at the host institution, graduate deans of both institutions will be fully informed by the advisor and have the power to approve or disapprove. A student will register at the host institution, and will pay tuition and/or registration fees according to fee schedules established at that institution. Credit for the work taken will be recorded at the home university.

Each university retains its full right to accept or reject any student who wishes to study under its auspices. A traveling scholar will normally be limited to one quarter (semester) on the campus of the host institution. A traveling scholar accepted by the host institution will be regarded as being registered at that institution for the period during which he is a traveling scholar.

A traveling scholar is not entitled to displacement allowance, mileage, or per diem payments. The home university, however, may at its option continue its financial support of the traveling scholar in the form of a fellowship or graduate assistantship with any work obligation to be discharged either at the home or at the host institution.

Fees and Refunds

Fees at Florida International University will be the same as those at other State Universities in Florida. They are set annually by the Board of Regents and the Legislature and are subject to change. The fees established for 1974-75 are detailed below:

Application Fee (one time charge—non-refundable) $15.00

Registration Fee (Per Credit Hour)	Florida Residents	Non-Florida Residents
Undergraduate Courses	13.00	37.00
Graduate Courses	16.50	40.50

(Fees will be assessed based on the level of each course attempted)

The deadline for payment of all Registration Fees is the close of business on the last day of regular registration. A $25 Late Registration Fee is charged students who fail to complete registration and pay fees by that time.

A full refund of fees will be made if a student withdraws completely from the University on or before the last day of late registration. A full refund will be made if the University cancels a students registration on or before the end of late registration.

After the end of late registration there will be no refund of Registration Fees except in the following cases:

- Death of the student
- Illness of the student so severe that it prevents completion of the program for which the student is registered. A doctor's certificate of this illness is required.

In the above instances the per hour fee less $2.80 per hour will be refunded.

No refund will be made under this policy except upon proper application through the Cashier's Office.

CLASSIFICATION OF STUDENTS FOR TUITION PURPOSES – FLORIDA OR NON-FLORIDA

Policy relating to classification of students for tuition purposes is as defined in the Board of Regent's Operations Manual for The State University System of Florida:

FLORIDA STUDENT DEFINITION

For the purpose of assessing registration fees, students shall be classified as Florida and non-Florida. A Florida student is a person who shall have resided and had his domicile in the State of Florida for at least twelve (12) months immediately preceding the first day of classes of the current term.

In applying this policy, "student" shall mean a person admitted to the institution. If such person is a minor, it shall mean parents, parent, or legal guardian of his or her person.

The word "minor" shall mean a person who has not attained the age of 18 and whose disabilities of minority have not been removed by reason of marriage or by a court of competent jurisdiction.

The word "domicile" for fee-paying purposes shall denote a person's true, fixed, and permanent home and place of habitation. It is the place where the person intends to remain, and to which the person expects to return after a leave without intending to establish a new domicile elsewhere.

The word "parent" shall mean a minor's father; or mother; or if one parent has custody of the minor, the parent having custody; or if there is a guardian or legal custodian of the minor, then such guardian or legal custodian.

In all applications, for admission by students as citizens of Florida, the applicant, or if a minor, the parents or legal guardian shall make and file with such application a written statement under oath that such applicant is a bonafide citizen, resident, domiciliary of the State of Florida entitled as such to admission upon the terms and conditions prescribed for citizens, residents, and domiciliaries of the State.

A non-Florida student is a person not meeting the requirements above. A non-Florida student (or, if a minor, the parent or parents) after having been a resident and domiciliary of Florida for twelve months may apply for and be granted reclassification prior to the first day of classes of any subsequent term; provided, however that those students who are non-resident aliens or who are in the United States on a non-immigration visa will not be entitled to

reclassification. However, for fee-paying purposes, Cuban nationals will be considered as resident aliens. Such application shall comply with the provisions above. In addition, the application for reclassification must be accompanied by a certified copy of a declaration of intention to establish domicile filed with the clerk of the Circuit Court as provided by Section 222.17 Florida Statutes.

Unless the contrary appears to the satisfaction of the registering authority of the institution at which a student is registering it shall be presumed that:

1. The spouse of any person who is classified or is eligible for classification as an in-state student is likewise entitled to classification as an in-state student.

2. A minor whose parent is a member of the armed forces and stationed in this state pursuant to military orders is entitled to classification as an in-state student. The student, while in continuous attendance, shall not lose residence when the parent is thereafter transferred on military orders. A member of the armed forces of the United States stationed in this state on military orders shall be entitled to classification as an in-state student while on active duty in this state pursuant to such orders.

3. No person over the age of 18 years shall be deemed to have gained residency while attending any educational institution in this State as a full-time student, as such status is defined by the Board of Regents, in the absence of a clear demonstration that the student has established domicile in the State.

4. Any person who remains in this State when the parent, having theretofore been domiciled in this State, removes from this State, shall be entitled to classification as a Florida student, so long as the student's attendance at a school or schools in this State shall be deemed continuous. Attendance at a school or schools in this State shall be deemed "continuous" if the person claiming continuous attendance has been enrolled at a school or schools in this State as a full-time student, as such term is defined by the Board of Regents, for a normal academic year in each calendar year, or the appropriate portion or portions of such years, thereof, since the beginning of the period for which continuous attendance is claimed. Such person need not attend summer sessions or other such intersession beyond the normal academic year in order to render attendance "continuous."

Appeal from a determination denying Florida status to any student may be initiated by the filing of an action in court in the judicial district in which the institution is located.

Any student granted status as a Florida student, which status is based on a sworn statement which is false, shall, upon a determination of such falsity, be subject to such disciplinary sanctions as may be imposed by the President of the University, which sanctions may include permanent expulsion from the State University System or any lesser penalty.

SPECIAL CATEGORIES

The following categories shall be treated as Florida residents for tuition purposes:

1. Military personnel of the United States of America on active duty and stationed in Florida, including dependent members of their immediate families.

2. Veterans of the United States of America retired with twenty (20) years or more of active military service, including dependent members of their

immediate families, who are in Florida at the time of retirement, or who move to Florida within one year following retirement and intend to make Florida their permanent home.

3. Full-time elementary, secondary, and junior college faculty members under current teaching contracts in the State of Florida.

4. Full-time faculty and career employees of the University System and members of their immediate families. (This is construed to exclude the spouses of students.)

5. Students selected by their respective states for participation in the Southern Regional Education Board academic common market program who are enrolled in programs approved by the Florida Board of Regents.

Students who are in the special categories above may change status from non-Florida to Florida resident by presenting to the Office of Registration and Records a copy of the Declaration of Intent to establish domicile that has been filed with the Clerk of the Circuit Court and the completed and notarized Residency Affidavit form. To claim the military exception, the student must furnish the Office of Registration and Records a copy of the military orders showing assignment to Florida. A public school official must submit a written statement from the applicant's superior as to the applicant's public school status. A University employee must submit a statement from the Personnel Office as to the applicant's employment status.

PAST DUE STUDENT ACCOUNTS

All student accounts are due and payable at the Cashier's Office, Room 212, Primera Casa, at the time such charges are incurred.

Delinquent accounts will be considered sufficient cause to prohibit registration, graduation, granting of credit, or release of transcript for students. The University is not able to grant credit or time payments for any fees. Financial aid is available for those qualifying from the Office of Financial Aid. A limited number of short term loans are available to individuals who may experience problems in meeting fee due dates.

To Serve You... The Division of Student Services

Dean Sandra J. Clark

You can expect at Florida International the broad spectrum of activities and services that a progressive urban university is able to provide in a community of the size and diversity of Greater Miami.

The student activities are being designed by our students to develop their talents and to help them fulfill their potential. The activities are all factors in Florida International's "spirit of community." But the most important factor is what you as an individual bring to this spirit.

The entire university community is a center for culture, giving encouragement to creativity and expression through various mediums. Programs of music, drama and dance, and exhibits of arts and crafts, reflecting Florida International's urban and international orientation, contribute to the University's mission of fostering better understanding. Guest speakers, focusing on today's pressing problems, are scheduled on a regular basis to enable you to "rap with the newsmakers."

ORGANIZATIONS

Student activities are integrally designed to meet the varied needs and potentials of Florida International students. Many organizations are co-curricular and based around various academic disciplines while others reflect special interests of students outside the classroom. Organizations are continually being formed and you have the opportunity to develop groups that further social and service programs, promote and supervise student welfare, and coordinate and implement community-student cooperation. The Student Activities Office in the Division of Student Services will provide further information to you if you are interested in organizing a group or joining one that exists.

The following is a list of organizations which have been officially recognized by the Student Government Association and the Division of Student Services:

Bahamian Student Association
Biology Club
Campus Advance
Council for Exceptional Children
Criminal Justice Society
Day Care Center Group
Directorio Estudiantil Universitario
Dramatics Society
The Good Times (independent student newspaper)
Jewish Student Organization
Health, Phys. Ed., Recreation Majors Club
Hosts, Florida International
International Student Club
"Listening Post" (Crisis Intervention Center)
Literary Magazine
Meditation Society
Operation Amigo International
Phi Beta Lambda (business club)
Physics Society
Politics Club
Psychological Association, Student
Sigma Phi Epsilon (social fraternity)
Social Workers Association, Student
Student Art Association
Student Awareness Organization
Students for Immediate Social Change
Student Government Association
Veterans Aiding Veterans
Young Democrats

A Student Government Association is fully operational and works as the voice of the students to involve all interested students in university committees and task forces.

The Social and Cultural Committee, a standing committee of the S.G.A., sets up concert, lecture and film series and provides a wide range of free university-wide activities each quarter.

PUBLICATIONS

Publications by and for students exist on the campus. In furthering Florida International's philosophy of linking practical experience with theory, student

publications provide one of the ways by which students may gain experience in journalism outside the classroom.

An independent student newspaper and several publications of specific student organizations are being distributed to the campus community, and a literary magazine is in formational stages.

RECREATION

Game room type recreation facilities are available in the new student center called the University House.

GOVERNANCE

As a student at Florida International you are encouraged to participate in the governance of the University. The essential thrust of the University's philosophy is to structure an effective governance program that truly represents the students, the faculty and the staff in developing the institution's policies.

The governance of Florida International is intended to reflect common goals, and to bring honest differences of opinion out into the open when such exist. Through coordinated action and cooperation, the ingenuity of students can be an effective force in serving the total University community. Your concerns will be considered within the framework of the total governance of the University because students will be represented on all major University governing councils and committees which are established.

Faculty and staff of Florida International actively seek to learn your desires and needs, which represent a major consideration in the decision-making process at the University. At the same time, to enhance "two-way" communication, it is important that you also give consideration to the views of faculty and staff as the "University family" works together to meet the basic goals of the institution.

An elected Student Government Association is now in office working as one of the four Senates in the University Council, the primary governance unit of the University.

STUDENT HEALTH CARE

The health services at Florida International are designed to supplement the normal health care of our totally non-resident population and are adequately prepared to provide emergency health care for anyone becoming injured or ill while on campus.

Our emergency health clinic on campus is staffed by a registered nurse from 8:00 a.m. to 9:00 p.m., Monday through Friday, and 24-hour emergency medical services are available through a medical clinic near the campus.

All full fee paying students are automatically covered with a $1,000 blanket accident insurance policy upon payment of their fees. All students can elect additional personal insurance coverage at low group rates through our Student Health Insurance Program. Options include $2,500 major medical accident and

illness coverage, and a maternity benefit clause. Information regarding this coverage will be mailed to you after you enroll in the University or you can contact the Health Clinic on campus.

HANDICAPPED STUDENTS

Special arrangements have been made at Florida International to serve the needs of those of you who have physical handicaps. Buildings include elevator and ramp facilities as stipulated by federal regulations for the handicapped, as well as special restrooms, lowered drinking fountains and telephones, and a limited special parking area.

FOOD SERVICE

Food and beverage service is available in the complete meal service cafeteria style dining facility in the University House, our newly opened recreation and student services building. This building also houses several small dining rooms, a Rathskeller and outdoor patio dining areas. Food Service offers full catering services to university groups.

COOPERATIVE EDUCATION

Cooperative Education is an academic program designed to augment and enhance students' education by adding the dimension of alternating quarters of classroom theory with quarters of full-time employment in positions directly related to the student's major fields of study. Interested students should contact the Cooperative Education Department, which is responsible for coordinating the relationship between the student's campus activity and the student's cooperative work assignments.

ACADEMIC ADVISING

Advice on major field of study selection is available through the Office of the Coordinator of Academic Advising within the Division of Student Services. Upon selection of a major that office will refer students to advisers within the specific schools or college. This office has a special responsibility for working with the academic advisers in the college or schools concerning the academic progress of foreign students. The office also maintains information on graduate programs at other universities.

FINANCIAL AID

Florida International University subscribes to the philosophy that a student is entitled to a college education regardless of his financial condition. The Office of

Financial Aid has an extensive program of student financial aid which includes scholarships, grants, loans and employment. Awards are based on need, and each application is given individual attention. All financial aid records are confidential, and financial counseling by experienced personnel is provided.

Assistance may be in the form of a scholarship, loan, part-time employment or a combination of all three in a "package". Florida International participates in the National Direct Student Loan Program, the Florida Student Loan Program, the Cuban Loan Program, the Federal Nursing Student Loan and Scholarship Program, the Law Enforcement Education Program, the College Work-Study Program, the Florida Student Assistance Grant Program, the Supplemental Education Opportunity Grant and Basic Opportunity Grants. Forms for the Federally Insured Loan, a type of transaction between local lenders and the student, are also processed through the Office of Financial Aid. Interest rates vary, and most loans are repayable starting nine months to a year following graduation or withdrawal from an institution of higher education.

In order to qualify for aid a student must be a full-time, degree-seeking student. **A new application for aid must be submitted each year.** Forms are available in February for the fall quarter of the following academic year. Those applications on file by May 1 are given priority consideration. In addition to the aid application, students must complete a financial statement which is mailed directly to the American College Testing Service, which in turn sends the University a computerized version of the student's need. This must be done whether the student is dependent upon his parents or is an independent student. Awards may be adjusted if the income of the student changes, and applicants who fail to notify the Office of Financial Aid of assistance from other sources are subject to complete withdrawal of aid.

The Office of Financial Aid in the Division of Student Services welcomes inquiries regarding financial aid. Applicants are encouraged to contact the office if additional information is needed.

Please note that the opportunities for financial assistance are limited if you are not a resident alien or U.S. citizen.

VETERANS AFFAIRS

The University employs a Director of Veterans Programs in the Division of Student Services to assist veterans with their problems and to coordinate Veterans Affairs. All veterans entering the University should contact the Office of Registration and Records concerning their certification and eligibility of veterans benefits. Veterans who desire tutoring or advice should contact the Director of Veterans Programs in Student Services.

FOREIGN STUDENT AFFAIRS

The Foreign Student Adviser provides the necessary services to meet the special needs of foreign students. These services include personal, social and academic counseling. Advisers also offer orientation programs and assist all students in exchange programs.

The Foreign Student Adviser works in close relationship with the Office of Admissions and Community College Relations, the Office of Admissions and other university units in matters pertaining to the total welfare of the university's international students.

An orientation program is planned at the beginning of every quarter to acquaint the new international students with the University, Immigration Regulations and the community.

CAREER PLANNING PROGRAMS

The Office of Career Planning Programs is organized to operate as a focal point of career planning and related programs for students and alumni. These programs are intended to help students develop their career objectives, to assist students in locating the most advanced positions for which they are qualified and to provide alumni with the opportunity to audit their career effectiveness and make critical career decisions. Career Planning Programs and services include one-to-one counseling, group guidance in the form of workshops, on-campus recruiting of students by employers, access to employment opportunity listings announced by employers, availability of a career information library and assistance to students in developing personal and professional data to be presented to employers.

COUNSELING SERVICES

A variety of special advising and counseling is provided by a range of qualified professional staff. Individualized assistance is provided for Foreign Students, Veterans and the Handicapped in addition to regular students experiencing difficulty with career choice and personal growth which might require psychological help or testing. To supplement the on-campus professional staff, off-campus diagnostic psychological services are also available at no cost to the student.

HOUSING AND TRANSPORTATION

Housing is of your own choice. Florida International does not provide on-campus housing, but the University does provide assistance in locating housing. For lists of available housing contact the Division of Student Services.

There is ample parking space for automobiles on campus and bike racks are available for securing bicycles. In addition, connecting bus service to the campus is provided by the Metropolitan Transit Authority. Florida International is currently making plans to arrange for car pools to and from the University.

Baccalaureate and Master Degrees

College of Arts and Sciences —
- Bachelor of Arts
- Bachelor of Fine Arts
- Bachelor of Science

School of Business and Organizational Sciences —
- Bachelor of Business Administration
- Master of Business Administration
- Master of Science in Management

School of Education —
- Bachelor of Science
- Master of Science

School of Health and Social Services —
- Bachelor of Science
- Master of Science in Dietetics*

School of Hotel, Food and Travel Services —
- Bachelor of Science
- Master of Science in Hotel and Food Service Management

School of Technology —
- Bachelor of Science
- Bachelor of Technology

School of Independent Studies —
- Bachelor of Arts
- Bachelor of Fine Arts
- Bachelor of Science
- Bachelor of Business Administration
- Bachelor of Social Work
- Bachelor of Technology

*In Planning Phase

Academic Programs

Majors leading to a Bachelor's Degree are offered by:

College of Arts and Sciences

*Art
*Biological Sciences
*Chemistry
Computer Science
Economics
*English
Environmental Studies
Fine Arts
Geology
*History
Humanities
International Relations
Liberal Studies
*Mathematics
Modern Languages
*French
*German
*Portuguese
*Spanish
Music
Philosophy/Religion
Physics
Political Science
Psychology
Sociology/Anthropology
Statistics
Theater

**NOTE:* *These areas also provide course sequences for students desiring teacher certification.*

School of Business and Organizational Sciences

Accounting
Finance
Insurance and Risk Management
International Management
Management
Management Information Systems
Marketing
Personnel Management
Real Estate
Transportation
Urban and Regional Affairs

School of Education

Administration and Supervision
Adult Education
*Art (1-12)
*Biological Sciences
Counselor Education
Early Childhood Education
Elementary Education
*English
Health Education
*History
**Home Economics
Industrial Arts
*Mathematics
Modern Languages:
*French
*German
*Portuguese
*Spanish
*Music (1-12)
Physical Education (1-12)
*Physical Sciences
Recreation
School Psychology
*Social Studies
Special Education
Behavioral Disorders
Intellectual Differences
Specific Learning Disabilities
Technical Education
Vocational Industrial Education

**NOTE: Students in these areas of specialization take their subject matter preparation in the College of Arts and Sciences and their professional preparation in the School of Education. The degree may be taken in either the College of Arts and Sciences or the School of Education.*

***NOTE: Interdisciplinary program offered by The Schools of Education, Technology and Health and Social Services.*

School of Health and Social Services

Criminal Justice
Dietetics and Nutrition
Health Science
Medical Technology
Nursing
Occupational Therapy
Physical Therapy
Social Work

School of Hotel, Food and Travel Services

General Hospitality Management
Hotel–Motel Management
International Hotel Management
Restaurant and Food Service Management
Tourism and Travel Management
Condominium/Cooperative and Apartment Management

School of Technology

Construction
- Civil Engineering Technology
- Construction Management
- Construction Engineering Technology
- Interior Design

Engineering Technology
- Mechanical Engineering Technology
- Electrical/Electronics Engineering Technology
- Computer Engineering Technology

Environmental Technology Systems
- Environmental Technology
- Urban Systems
- Transportation Technology

Industrial Technology
- Industrial Operations
- *Communications
- Manufacturing
- Safety

School of Independent Studies

(External Degree at Baccalaureate Level)

All majors offered by The College of Arts and Sciences, The School of Business and Organizational Sciences, The School of Health and Social Services, The School of Hotel, Food and Travel Services, and The School of Technology are offered through The School of Independent Studies.

Division of University Services and Continuing Education

Department of Conferences
- Conferences, Seminars, Workshops, Short Courses and other Non-credit Activities

Department of Off Campus Credit Programs
School Service Center

**In Planning Phase with College of Arts and Sciences*

ROTC PROGRAM

Florida International's ROTC Program is offered under a cross-enrollment agreement with the University of Miami. The classroom portion of the courses is taught at Florida International while the weekly drills are held at the University of Miami. Any questions should be referred to the Military Science Department at the University of Miami.

LOWER DIVISION PREPARATION:

Required Courses: Military Science I and II. (See remarks)

Remarks:
The lower division preparation may be waived if the student (1) is a veteran or (2) attends a basic camp prior to entering MIL 301.

UPPER DIVISION PROGRAM:

Required Courses:
MIL 301, 302
MIL 401, 402

Remarks:
The program is designed to select interested and qualified individuals for entry into the U.S. Army at a management level. During the program, students will receive $100/month (for 10 months/year) and will attend a summer camp prior to commissioning as a second lieutenant.

MILITARY SCIENCE COURSE OFFERINGS

MIL 301 – MILITARY LEADERSHIP AND MOTIVATION (3)
(ADVANCED MS III)
A behavioral science approach to military leadership and motivation with emphasis on crisis-oriented organizations.

MIL 302 – ADVANCED MILITARY III (3)
Applied tactics; principles and fundamentals of tactical operations. Advanced leadership.

MIL 401 – ADVANCED MILITARY SCIENCE IV (3)
World power relationships: world change and military implications. Applied leadership. Military administration and justice.

MIL 402 – ADVANCED MILITARY SCIENCE IV (3)
Theory and dynamics of the military team. Applied leadership.

The programs, policies, requirements or regulations published in this Catalog are continually subject to review in order to serve the needs of the University's various publics and to respond to various mandates of The Florida Board of Regents and of The Florida Legislature. Accordingly, changes in such programs, policies and requirements may be made without advance notice.

MEANING OF SYMBOLS

Seasonal quarters in which courses are offered are indicated by "F, W, S or SS" – Fall, Winter, Spring or Summer School. In most cases where the term is not designated, the quarter(s) in which a course will be offered has not been specifically determined. The student interested in a particular course should check with his adviser or department offering course. Credit hours are designated immediately following the titles of courses.

ACCELERATION

The Academic Programs at Florida International University are planned in such a manner that students are afforded the opportunity to complete their upper division degree requirements through the following **accelerated mechanisms:**

Standardized Tests (i.e., CLEP)
Institutional Departmental Examinations
Cross Registration with Community Colleges
Credit for Documented Life/Work Experience

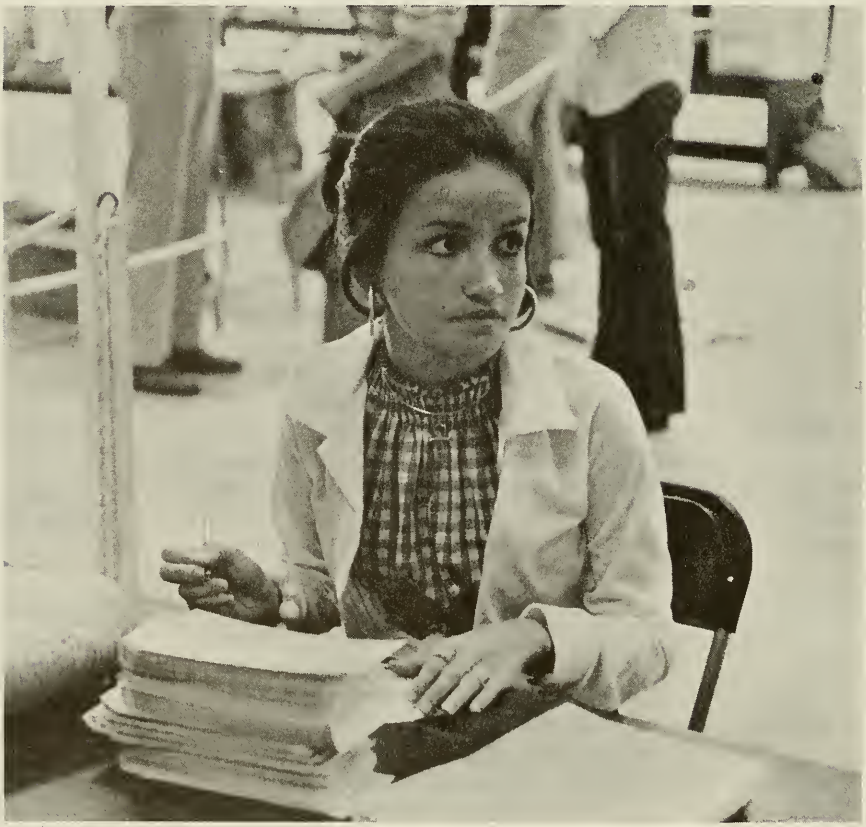
NOTE: Specific information on the accelerated mechanisms utilized in each program is available from the department/division of the student's major.

Academic Calendar 1974-76

1974		1975
FALL		**FALL**
Sept. 2	Labor Day Holiday (University Closed)	Sept. 1
Sept. 6	Last Day for Receipt of Applications for Regular Admission to Fall Quarter	Sept. 5
Sept. 9-19	Registration by Mail for Those Who Preregistered	Sept. 8-18
Sept. 16-19	New Student Orientation (Students will be Notified of Time and Location)	Sept. 15-18
Sept. 20	Change Day (Late Registration and Class Schedule Adjustments) Last Day to Pay Fees Without a $25. Late Fee	Sept. 19
Sept. 23	Classes Begin	Sept. 22
Sept. 30	Last Day for Completing Late Registration Last Day to Add a Course (Or Change Sections) Last Day to Withdraw from the University (Or to Drop a Course) With a Fee Refund Last Day to Pay Fees. Those Who Fail to Pay Fees (Or Fail to Make Appropriate Arrangements for Payments) Will have Their Registration Cancelled	Sept. 29
Oct. 21	Last Day to Drop a Course without a Grade Last Day to Apply for Fall Quarter Graduation	Oct. 20
Nov. 11	Veteran's Day Holiday (University Closed)	Nov. 11
Nov. 28-29	Thanksgiving Holidays (University Closed)	Nov. 27-28
Dec. 12	Classes End	Dec. 11
Dec. 14	Official Commencement Exercises	Dec. 13
Dec. 25	Holiday (University Closed)	Dec. 25
WINTER		**WINTER**
Dec. 16-Jan. 2	Registration by Mail for Those Who Preregistered	Dec. 15-Jan. 11
Dec. 20	Last Day for Receipt of Applications for Regular Admission to Winter Quarter	Dec. 19
Jan. 1	New Year's Holiday (University Closed)	Jan. 1
Jan. 3	Change Day (Late Registration and Class Schedule Adjustments) Last Day to Pay Fees Without a $25. Late Fee New Student Orientation (Students will be Notified of Time and Location)	Jan. 2
Jan. 6	Classes Begin	Jan. 5

1975		1976
Jan. 13	Last Day to Add a Course (Or Change Sections) Without Consent of Instructor and Academic Dean Last Day to Withdraw from University (Or to Drop a Course) with a Fee Refund Last Day to Pay Fees. Those Who Fail to Pay Fees (Or Fail to Make Appropriate Arrangements for Payments) Will Have Their Registration Cancelled.	Jan. 12
Feb. 3	Last Day to Drop a Course Without a Grade Last Day to Apply for Winter Quarter Graduation	Feb. 2
Mar. 20	Classes End	Mar. 18
SPRING		**SPRING**
Mar. 14	Last Day for Receipt of Application for Regular Admission to Spring Quarter	Mar. 12
Mar. 21-27	Registration by Mail for Those Who Preregistered	Mar. 19-25
Mar. 28	Change Day (Late Registration and Class Schedule Adjustments) Last Day to Pay Fees Without a $25. Late Fee New Student Orientation (Student will be Notified of Time and Location)	Mar. 26
Mar. 31	Classes Begin	Mar. 29
April 7	Last Day for Completing Late Registration Last Day to Add a Course (Or Change Sections) Without Consent of Instructor and Academic Dean Last Day to Withdraw from University (Or to Drop a Course) with a Fee Refund Last Day to Pay Fees. Those Who Fail to Pay Fees (Or Fail to Make Appropriate Arrangements for Payments) Will Have Their Registration Cancelled.	April 5
April 28	Last Day to Drop a Course Without a Grade Last Day to Apply For Spring Quarter Graduation	April 26
May 26	Memorial Day Holiday (University Closed)	May 31
June 12	Classes End	June 10
June 14	Official Commencement Exercises	
SUMMER		**SUMMER**
June 6	Last Day for Receipt of Application for Regular Admission to Summer Quarter	June 4
June 9-19	Registration by Mail for Those Who Preregistered	June 7-17
June 20	Change Day (Late Registration and Class Schedule Adjustments)	June 18

	Last Day to Pay Fees Without a $25. Late Fee	
	New Student Orientation (Students will be Notified of Time and Location)	
June 23	First Day of Classes	June 21
June 30	Last Day for Completing Late Registration	June 28
	Last Day to Add a Course (Or Change Sections) Without Consent of Instructor and Academic Dean	
	Last Day to Withdraw from University (Or to Drop a Course) with a Fee Refund	
	Last Day to Pay Fees. Those Who Fail to Pay Fees (Or Fail to Make Appropriate Arrangements for Payment) Will Have Their Registration Cancelled.	
July 21	Last Day to Drop a Course Without a Grade	July 19
	Last Day to Apply For Summer Quarter Graduation	
July 4	Independence Day Holiday (University Closed, 1975 only)	
Aug. 28	Classes End	Aug. 26



College of Arts and Sciences

Dean Butler H. Waugh

The faculty of the College of Arts and Sciences, committed to the three basic goals of the University (Education of Students, Service to the Community, and Increased International Understanding), recognizes its central role in furthering these goals. In addition to providing the sources of theoretical knowledge upon which the various schools of the University build, the College of Arts and Sciences has the special and primary responsibility of offering all students an atmosphere and environment in which they can exercise free inquiry directed to an understanding of the nature of the universe and their role in it.

Even though the above is a large responsibility, it is no more than what should be the responsibility of university faculties now and in the past. To preserve from the past that of greatest value to the present and to encourage a critical evaluation of projected goals, individually and collectively, are objectives in the best interest of both the student and the society in which he lives. The College of Arts and Sciences, therefore, offers courses and programs essential to the development of the individual student and to the advancement of society's collective intellectual resources. Thus, the College, while providing a wide range of specialized studies, also enables the student to explore areas of general concern regarding man and his history, his environment and his creativity — in short, those concerns which, when carefully attended to, mark the truly educated man or woman.

Simply stated, the College of Arts and Sciences is committed to quicken-

ing and enlarging the intellectual capacities of the members of the University family and the community and to preserving and disseminating the results of all serious intellectual inquiry. To facilitate these goals, the College will:

- Provide, at the junior and senior level, the highest quality instruction leading to the baccalaureate degree in the arts and in the sciences, not merely by transmitting skills and knowledge, but by developing the ability to think, to respond to ideas, and to test hypotheses and interpret human experience anew.
- Offer curricula whose flexibility not only permits but encourages divisional, cross- and inter-departmental programs, thereby allowing students to develop courses of study suited to their individual needs and goals.
- Provide, under the heading of the Liberal Studies Curriculum, a variety of programs and opportunities which will lead to a college-wide major in Liberal Studies.
- Develop curricula and programs in conjunction with the various professional schools of the University and with the community which will directly serve the pre-professional interests of those who envisage a career in any area of public service.
- Afford the counsel and guidance for devising innovative courses of study suited to individual needs and provide imaginative means of evaluating such programs.
- Offer opportunities, both in specified College courses and in special programs, to gain an immediate acquaintance with non-native cultures and practices.
- Develop study and research directed to the advancement and application of knowledge, and make discoveries on the frontiers of knowledge available to students and community.
- Serve as the intellectual and cultural catalyst for the University, its students and community by means of special programs, lectures, art, drama, and music.

ORGANIZATION

The College curriculum is arranged in the following three divisions or areas of knowledge, understanding and skills basic to any arts and science program:

Division of Humanities

Five departments offer instruction in courses designed to broaden awareness and understanding of man's expressional and cultural inheritance and to explore ways of making that inheritance fruitful to the future.

English
Fine Arts: Art, Music, Theater
History
Modern Languages
Philosophy and Religion

Division of Social Sciences

Five departments offer courses of instruction in these areas of knowledge which directly pertain to man's individual and collective behavior. In their

various ways, these departments are all concerned with man-the-individual as he interacts with an ever-increasing number of complex and intersecting communities and interests.

Economics
International Relations
Political Science
Psychology
Sociology and Anthropology

Division of Natural and Applied Sciences

Three departments offer instruction in the sciences of living organisms, matter and energy, and the complementary disciplines related to number and space configurations.

Biological Sciences
Mathematical Sciences: Computer Science, Mathematics, Statistics
Physical Sciences: Chemistry, Geology, Physics

ADMISSION

Students holding an Associate degree from the community college level will be admitted to programs of study of their choice. The College will serve those who are, for a variety of reasons, unable to enroll directly in certain schools or programs of the University. The College will provide compensatory educational experiences to enable such students to meet the course, credit, or degree requirements of the Schools.

HUMANITIES DIVISION

ENGLISH MAJORS

LOWER DIVISION PREPARATION:

Required Courses: None

Remarks: Prospective secondary school teachers should take the Foundations of Education courses in the lower division.

UPPER DIVISION PROGRAM:

Required Courses:

English	45 quarter hours
Electives	45 quarter hours

ENGLISH

ENG 300-310 – THEMES IN LITERATURE (5) **(F,W,S,SS)**
Individual sections will read and discuss works relating to topics of current and enduring interest. Literature as it reflects the identities of men and women; their places in families; in past, present, and future societies; in the natural world, and the cosmic order. May be repeated.

ENG 311 – EXPOSITORY WRITING (5) **(F,W,S,SS)**
An advanced composition course in the techniques of exposition, argumentation, and persuasion. Special sections for the foreign-born.

ENG 312 – REPORT AND TECHNICAL WRITING (5) **(W,S)**
For business, professional, and scientific students needing practice in collecting, organizing, interpreting, and presenting factual material.

ENG 313 – IMAGINATIVE WRITING (5) **(F,W,S)**
Practice in developing individual creative expression and in appreciating that talent in others.

ENG 314 – THE MOVIES (5) **(F,S)**
Viewing and discussion of films, with attention to cinematic ways of story-telling and to the popular film as an expression of cultural values.

ENG 320 – ENGLISH LINGUISTICS (5) **(F,W)**
Study of the sounds, vocabulary, and sentence patterns of standard modern English. Other topics include meaning, social and regional dialects, language change, and style.

ENG 360-370 – MAJOR LITERARY MODES (5) **(F,W,S)**
Individual sections will read and discuss the literary expression of heroic, tragic, comic, satiric, mythic, realistic, or other formalized views of human existence. May be repeated.

ENG 380 – SURVEY OF AFRO-AMERICAN LITERATURE (5) **(S,F)**
Study of Afro-American Literature from Phyllis Wheatley to James Baldwin. The first half of the course will be concentrated on writers before World War II while the second half will be designed to give students the opportunity to study modern authors from 1920 to present.

ENG 400-410 – MAJOR LITERARY GENRES (5) **(F,W,S,SS)**
Individual sections will read and discuss the form and development of novels or dramas, poetry, short fiction, or such special kinds as biographies, folksongs and tales, or essays, among other genre. May be repeated.

ENG 415 – WRITING POETRY (5) (F,W,S,SS)
An intermediate course in writing poetry. Admission requires consent of the instructor.

ENG 416 – WRITING FICTION (5) (F,W,S,SS)
An intermediate course in writing fiction. Admission requires consent of instructor.

ENG 405 – HISTORY OF THE FILM (5)
Discussion, with examples, of the development of cinematic art from its European and American beginnings to its place as the major world art form.

ENG 407 – RHETORIC AND POETICS (5)
Ancient and modern theory and practice in discussing the formal properties of elevated language.

ENG 422 – RHETORIC AND COMMUNICATION: BLACK RHETORIC (5) (F)
Black people in America have been involved in several significant movements designed primarily to meet the challenges of institutionalized racism. While these movements generally were reactions to the negative actions of an external and alien non-black community, they were also responses initiated by a few blacks to meet the needs of a larger black population. The course will focus on these movements, i.e., abolition, segregation, integration, and emigration, giving special emphasis to each of the movements leading rhetors, their arguments, counter-arguments, and appeals.

ENG 431 – SHAKESPEARE: COMEDIES (5) (F)
Reading and informal dramatic interpretation of representative plays.

ENG 432 – SHAKESPEARE: TRAGEDIES (5) (W)
Reading and informal dramatic interpretation of representative plays.

ENG 433 – SHAKESPEARE: HISTORIES (5) (S)
Reading and informal dramatic interpretation of representative plays.

ENG 440-445 – REGIONAL LITERATURE IN ENGLISH (5)
Individual sections will discuss English writing in Ireland, Scotland, Wales, Canada, the Caribbean, India, sub-Saharan Africa, and Oceania, as well as distinctive regions in England and America. May be repeated.

ENG 450 – LITERATURE AMONG THE ARTS AND SCIENCES (5)
Individual sections will relate the study of literature to other

disciplines in the humanities, fine arts, the social and natural sciences. May be repeated.

ENG 455-458 – SELECTED TOPICS IN COMMUNICATION (5)
Will include such topics as the theory of symbolic forms, communication and community psychology, inter-personal communications, models of communication, computers and language, and theory and analysis of message content. Topic will vary from quarter to quarter.

ENG 459 – STRUCTURE AND FUNCTION OF MASS MEDIA (5)
Will include the study of such topics as: Mass communication and society, popular culture, communication and social order, classic studies in mass communication, propaganda, mass media and government, and problems of the mass media. Topic will vary from quarter to quarter.

ENG 460 – APPLIED LINGUISTICS (5)
Linguistics in the classroom, English as a Second Language, Stylistics, Dialects.

ENG 498 – INDEPENDENT STUDY (Variable) (F,W,S,SS)
Individual conferences, assigned readings, reports on independent investigations with the consent of the chairman.

ENG 499 – SPECIAL TOPICS (Variable) (F,W,S,SS)
A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. Requires consent of the chairman.

ENG 500-510 – MAJOR AMERICAN LITERARY FIGURES (5) (F,W,S,SS)
Each section will consider the lifework of an author such as Hawthorne, Melville, Whitman, Twain, James, Faulkner, Mailer, Wright, Baldwin, or others. May be repeated.

ENG 511-520 – MAJOR BRITISH LITERARY FIGURES (5) (F,W,S,SS)
Each section will consider the lifework of an author such as Chaucer, Spenser, Milton, Pope, Wordsworth, Dickens, Browning, Joyce, or others. May be repeated.

ENG 521-530 – PERIODS IN AMERICAN LITERATURE (5) (F,W,S,SS)
Individual sections will read and discuss works in the context of such historical settings as the colonial, federal, antebellum, reconstruction, and other periods of the American past. May be repeated.

ENG 531-540 – PERIODS IN ENGLISH LITERATURE (5) (F,W,S)
Individual sections will read and discuss works in the context of such historical settings as the medieval, Tudor, Restoration, Victorian, and other periods of the English past. May be repeated.

ENG 541-550 – LITERARY MOVEMENTS (5) (F,W,S)
Individual sections will study the authors, works, and audiences involved in such phenomena as Humanism, Mannerism, Romanticism, Symbolism, The Harlem Renaissance, and others. May be repeated.

ENG 552 – MODERN ENGLISH GRAMMAR (5) (W)
Practical study of syntax. ENG 307 is pre-requisite, or consent of the instructor.

ENG 553 – HISTORY OF THE ENGLISH LANGUAGE (5) (S)
Study of the development of the grammar and vocabulary represented in samples of the English language from the 8th century down to modern times. ENG 307 is pre-requisite, or consent of the instructor.

ENG 555 – IMAGINATIVE WRITING (5) (F,W,S,SS)
An advanced course in the writing of fiction or poetry. Admission requires consent of the instructor.

ENG 550 – LITERARY CRITICISM AND SCHOLARSHIP (5)
Techniques and goals of humanistic research, bibliography, and critical commentary.

ENG 560 – STUDIES IN THE FILM (5)
Advanced work in film criticism. Study of individual directors.

ENG 598 – INDEPENDENT STUDY (Variable) (F,W,S,SS)
Individual conferences, assigned readings, reports on independent investigations with the consent of the chairman.

ENG 599 – SPECIAL TOPICS (Variable) (F,W,S,SS)
A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. Requires consent of the chairman.

ENG 698 – INDEPENDENT STUDY (Variable) (F,W,S,SS)
Individual conferences, assigned readings, reports on independent investigations with the consent of the chairman.

ENG 699 – SPECIAL TOPICS (Variable) (F,W,S,SS)
A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. Required consent of the chairman.

FINE ARTS

ART MAJORS

LOWER DIVISION PREPARATION:

Required Courses:

1. Art Survey — 6 (Semester Hours)
2. Drawing and Design — 12 (Semester Hours)

OR

A portfolio of drawing and design to be presented during the first advisement session and reviewed by the art faculty.

Recommended Courses:

Painting	Photography
Sculpture	Jewelry
Printmaking	Weaving
Ceramics	Cinematography

Remarks: Students without an Associate in Arts Degree or lacking proficiency in drawing and design will be expected to take more than 90 quarter hours to complete the degree.

UPPER DIVISION PROGRAM:

Required Courses:

ARH 585 (Contemporary Art)	5 quarter hours
Art History Elective	5 quarter hours
Studio Art (Minimum in one area)	20 quarter hours
Studio and Art History Electives	30 quarter hours
Electives	30 quarter hours
	90 quarter hours

ART

ARH 305 – SURVEY OF THE CONTEMPORARY ARTS (5) **(F,S)**

A survey of the most recent developments in the fields of the visual arts, architecture, music, theatre, film, etc.; lectures, films, speakers. Open to all students.

FIA 305 – INTRODUCTION TO 2D STUDIO ART (5) **(F,W,S)**

The student is encouraged to experience as broad a spectrum as possible; from drawing to relief printing and painting; from traditional anatomy and perspective to pure design in the contemporary sense. Open to all students.

FIA 306 – INTRODUCTION TO 3D STUDIO ART (5) **(W,S)**

A broad area of study in most of the three dimensional areas; modeling, carving, plastics, welding and wood. Open to all students.

FIA 315-515 – DRAWING (5-5) (F,W,S,SS)

Drawing will be considered as an essential part of every art student's curriculum. Depending on his lower level work, a student will be encouraged to take at least one drawing course at the University. Off-campus studio work may be arranged. (May be repeated)

FIA 316 – FIGURE DRAWING (5) (F,W,S,SS)

Drawing from the model during assigned studio time. Open to all students (may be repeated).

FIA 325-525 – PAINTING (5-5) (F,W,S,SS)

A study through the use of slide projections and individual criticism of the student's work. Any media on flat canvas up to painted, fabricated sculpture may be used. (May be repeated)

FIA 335-535 – SCULPTURE (5-5) (F,W,S)

With a background in beginning sculpture, the student will develop standards of excellence both in concept and technique, along the lines of the greatest individuality possible. An equipped shop will be available to the student. (May be repeated)

FIA 337-537 – JEWELRY AND METALS (5-5) (F,W,S)

A study of basic metal techniques and strengthening of three-dimensional design concepts for the beginner. The advanced student will explore conceptual and technical possibilities of an individual metal. A shop will be avialable for students. (May be repeated)

FIA 345-545 – PRINTMAKING (5-5) (F,W,S)

With a knowledge of basic etching and relief printing, the art student will explore a specific media such as etching, lithography, silk-screen, etc. (May be repeated)

FIA 355-555 – PHOTOGRAPHY (5-5) (F,W,S)

With a knowledge of beginning developing, printing and use of a camera, the art student will pursue his own direction with a heavy emphasis on individual approach, print quality, use of equipment and criticism. (May be repeated)

FIA 357 – INTRODUCTION TO FILMMAKING (5) (F)

For the beginning student of filmmaking. Survey of the origins and development of cinematography as an art form. Presentation and technical analysis of selected films.

FIA 358 – FILM PRODUCTION I (5)

Conceptual study of total-filmmaking. Equipment, procedures, locations, sets, actors, and production staff will be examined from the point of view of the director. Student will conceptualize, shoot

and edit a short film. (Prerequisite: FIA 357 or permission of the instructor. May be repeated.)

FIA 558 – FILM PRODUCTION II (5)
Conceptual study of total-filmmaking. Equipment, procedures, locations, sets, actors, and production staff will be examined from the point of view of the director. Student will conceptualize, shoot and edit a short film. (Prerequisite: FIA 357 or permission of the instructor. May be repeated.)

FIA 361 – CERAMICS (5) **(F,W,S)**
A beginning course for art and non-art majors. Fundamentals of throwing, hand building, and glaze application.

FIA 362 – CERAMICS (5) **(F,W,S)**
Specialized techniques in throwing and hand building, glaze mixing and techniques of firing. Pre-requisite: FIA 361 or permission of the instructor.

FIA 565 – CERAMICS (5) **(F,W,S)**
The advanced student will explore all aspects of expression in clay and glaze. Students are expected to be mostly self-directed. Prerequisite: FIA 361-362, or permission of the instructor. (May be repeated.)

FIA 385-585 – DIRECTED STUDY (5-5) **(F,W,S,SS)**
A group of students, with the approval of the Art Department faculty, may select a master artist teacher and pursue a course of art study in selected areas such as glass, graphic design, film, multi-media, environmental design, sound, etc. Arrangements must be made at least a quarter before course is offered. (May be repeated.)

FIA 395-595 – RESEARCH (1-5) **(F,W,S,SS)**
Students may study or research an individual art project with an art faculty member. Complexity and amount of work will determine the number of hours. (May be repeated.)

FIA 375 – BASIC ART IN CHILDHOOD EDUCATION (5) **(F,W,S,SS)**
A study of drawing, printmaking, painting and crafts as they relate to children.

ARH 516 – ART OF CHINA & JAPAN (5)
An introduction to the art of China to the Ming Dynasty and Japan through the 18th Century. The emphasis will be on painting and sculpture with some ceramics and architecture.

ARH 525 – PREHISTORIC AND ANCIENT ART (5)
Lectures, slides, visitors and student research will be used.

ARH 535 – GREEK AND ROMAN ART (5) (W)
Lectures, slides, visitors and student research will be used.

ARH 545 – MEDIEVAL ART (5)
Lectures, slides, visitors and student research will be used.

ARH 555 – RENAISSANCE ART (5) (F)
Lectures, slides, visitors and student research will be used.

ARH 565 – 17th-19th CENTURY ART (5) (S)
Lectures, slides, visitors and student research will be used.

ARH 566 – NINETEENTH CENTURY PAINTING (5)
A study of the various challenges offered artists at the beginning of the nineteenth century and of subsequent solutions created by painters in America, England, France, Germany and Italy. Styles such as neo-classicism, romanticism, realism, eroticism, Pre-Raphaeliticism, luminism, impressionism, and post impressionism will be examined.

ARH 567 – AMERICAN ART (5) (W)
Lectures, slides, visitors and student research will be used.

ARH 576 – MODERN ART (5)
Lectures, slides, visitors and student research will be used.

ARH 577 – SEMINAR IN ART CRITICISM (5)
Readings and Individual projects. Pre-requisite: ARH 585 or permission of the instructor.

ARH 585 – CONTEMPORARY ART (5) (F,S)
Lectures, slides, visitors and student research will be used.

FINE ARTS

MUSIC MAJORS

LOWER DIVISION PREPARATION:

Required Courses: None

Recommended Courses:

Theory	16 semester hours
Applied Music	16 semester hours

Remarks: Students without an Associate in Arts in Music or lacking proficiency in theory, sight singing, and performance in a major instrument will be expected to take more than 90 quarter hours of upper division work to complete the degree.

UPPER DIVISION PROGRAM:

Required Courses:

Theory	15 quarter hours
Applied Music	24 quarter hours
History	15 quarter hours
Music Electives	6 quarter hours
Electives	30 quarter hours

Remarks: Major in Music will present a senior recital.

MUSIC

MUS 305 – UNDERSTANDING AND ENJOYMENT OF MUSIC I (5) **(W)**

A non-technical introduction to program music of the 19th century and folk/popular music of the 20th century.

MUS 306 – UNDERSTANDING AND ENJOYMENT OF MUSIC II (5) **(S)**

A non-technical introduction to music before the 1800's and music of the 20th century. Comparisions of music up to and including electronic music.

MUS 307 – EVOLUTION OF JAZZ (5) **(F)**

The influx of Africa and Latin America on the development and styles of jazz music and its various exponents such as soul, blues, rock, etc.

MUS 315 – MUSIC HISTORY SURVEY (5) **(F)**

A technical study of music from antiquity to 1850. Lectures on historical styles will be supplemented with recordings and analysis.

MUS 316 – MUSIC HISTORY SURVEY (5) **(W)**

A technical study of music from 1850 to the present. Lectures on historical styles will be supplemented with recordings and analysis.

MUS 317 – TWENTIETH CENTURY MUSIC - EXPLORATION (5) **(S)**

An exploration study of music since 1900. Lectures on style plus demonstration will be supplemented with recordings and analysis. Elements of the popular idiom will be investigated.

MUS 318 – SACRED MUSIC IN HISTORY AND PRACTICE (5) **(S)**

A treatment of Sacred Music from a practical point of view based upon historical data. Both choral and instrumental literature will be investigated.

MUS 319 – SACRED MUSIC IN HISTORY AND PRACTICAL APPLICATION (5) **(S)**

The practical application of sacred music (in the field experience). Composition, both vocal and instrumental, will be required. Organ registration will be accented.

MUS 325 – SURVEY OF BASIC MUSIC (5) **(F,W,S)**

Designed for students to develop their skills in or to review basic theory, harmony, sightsinging and ear training.

MUS 326 – COUNTERPOINT (5) **(F,S)**

With a background of basic theory, harmony and ear training, the student will study linear writing through species counterpoint and its comparison with the 18th century harmonic idioms as well as polyphonic and homophonic idioms of the 14th through the 20th centuries.

MUS 327 – FORM AND ANALYSIS (5) **(W,S)**

With a background of counterpoint, the student will study the analysis of phrases, binary and ternary song forms, variation, rondo, sonatina and sonata – allegro forms, cyclic and free forms of Western culture music. Particular emphasis will be placed on 20th century compositions.

MUS 328 – SONGWRITING (5) **(F,W,S)**

Designed to provide students information and skills, so that they may compose song lyrics and melodies, write accompaniments for these, and attempt to have them performed and published. Prerequisite: The music theory content of MUP 366 – GUITAR SKILLS or its equivalent.

MUS 335 – CHORAL TECHNIQUES (5) **(F,W,S,SS)**

A course designed to strengthen and build the student's ability to write and perform Melodic, Harmonic and Keyboard dictation. It will also provide a rhythm pattern sequence necessary to write and understand the modern idiom of score reading, analysis and transposition.

MUS 385-585 – DIRECTED STUDY (5-5) **(F,W,S,SS)**

Designed for students to provide areas of exploration and specialization beyond the basic selected study programs such as electronic music, religious music literature, sound techniques, etc.

MUS 395-595 – RESEARCH (1-5) **(F,W,S,SS)**

Research composition or performance projects under the guidance and direction of the music faculty. (May be repeated.)

MUS 415 – HISTORY AND LITERATURE OF OPERA (5) **(S)**

Chronological survey of opera literature from the 17th century to present day. Analysis and performance of representative works.

MUS 416 – SYMPHONIC LITERATURE (5) **(S)**

Survey of symphonic literature from the 17th century to present day. Analysis and illustrations of representative works.

MUS 417 – KEYBOARD LITERATURE (5) **(W)**

Study of solo works and concertos from the 17th century to present day. Stylistic analysis and performance practices with illustrations of representative works.

MUS 425 – ORCHESTRATION (5) **(W,S)**

With a background of basic theory, the student will explore the techniques of writing and arranging for instruments in performing organizations and choral groups.

MUS 426 – TWENTIETH CENTURY THEORY–COMPOSITION (5) **(F,W)**

This course will analyze and compose works using the following procedures: melodic-harmonic techniques developed in the late nineteenth century, serial, improvisational and those derived from the use of electronic devices as performance media. Pre-requisites: Survey of Basic Music, and Counterpoint.

MUS 435 – BASIC CONDUCTING (2) **(F,S)**

A basic conducting course to gain fundamental techniques and interpretation. A pre-requisite for both advanced instrumental and choral conducting.

MUS 436 – INSTRUMENTAL CONDUCTING (2) **(S)**

With a background in basic theory and having performed in organizations, the student will develop a knowledge of baton technique, score reading and interpretation. Pre-requisite: Basic Conducting.

MUS 437 – CHORAL CONDUCTING (2) **(W)**

With a background in basic theory and having performed in organizations, the student will develop techniques of group conducting including madrigal, glee, choir, etc. A survey of choral literature will be included. Pre-requisite: Basic Conducting.

MUS 485 – RECITAL AND RESEARCH (2) **(F,W,S)**

All music majors, before graduation, must present at least one half of a public recital and pass an oral examination on the music programmed.

MUS 517 – TWENTIETH CENTURY MUSIC "NEW DIMENSIONS" (4) **(W,SS)**

A technical study of music since 1900. Lectures on style plus demonstrations and practical application will be supplemented with recordings and analysis. Electronic and multi-media performance will be accented.

MUS 526 – ARRANGING (4) (W,SS)
A practical course in arranging with a definite theory approach to meet the high school needs.

MUS 534 – ADVANCED CONDUCTING TECHNIQUES (2) (W,SS)
An extension of Form and Analysis with interpretation both in Instrumental and Choral Conducting. Twentieth Century scoring and symbol interpretation will be studied in depth with actual conducting experience required.

MUP 305-505 – UNIVERSITY SINGERS (Variable) (F,W,S)
A chorus performing repertoire primarily from great choral works. Large orchestral accompaniment as well as various instrumental ensembles will be utilized.

MUP 307-507 – COLLEGIATE CHORALE (Variable) (F,W,S)
A small ensemble of selected mixed voices performing repertoire of the modern popular idiom. Miniature contemporary accompaniment will be utilized.

MUP 315-515 – ORCHESTRA (Variable)
An instrumental ensemble performing works from the symphonic repertory. Previous experience and permission of conductor.

MUP 317-517 – WIND ENSEMBLE (Variable)
A group of wind and percussion instrumentalists. Permission of conductor.

MUP 325-525 – STUDIO JAZZ (Variable) (F,W,S)
An ensemble to provide creative professional level experience in the contemporary popular idiom.

MUP 327-527 – CHAMBER MUSIC (Variable) (F,W,S)
Small ensemble in the performing of Chamber Music literature. Permission of conductor.

MUP 335-535 – APPLIED MUSIC–BRASS (1-2) (1-2) (F,W,S)
Individual instruction in applied music on trumpet, French horn, trombone, baritone horn or tuba.

MUP 345-545 – APPLIED MUSIC–PERCUSSION (1-2) (1-2) (F,W,S)
Individual instruction in applied music on all percussion instruments.

MUP 355-555 – APPLIED MUSIC–PIANO/ORGAN (1-2) (1-2) (F,W,S)
Individual instruction in applied music on piano or organ.

MUP 365-565 – APPLIED MUSIC–STRINGS (1-2) (1-2) (F,W,S)
Individual instruction in applied music on violin, viola, cello, string bass, guitar or harp.

MUP 366 – GUITAR SKILLS (5) **(F,W,S,SS)**
Emphasis on music reading and elementary techniques. Open to all Florida International University students.

MUP 367 – INTERMEDIATE GUITAR SKILLS (5) **(F,W,S)**
Emphasis on technique and styles such as calypso, folk, blues, classical and jazz. Open to all Florida International University students.

MUP 375-575 – APPLIED MUSIC–VOICE (1-2) (1-2) **(F,W,S)**
Individual instruction in applied music in voice.

MUP 385-585 – APPLIED MUSIC–WOODWINDS (1-2) (1-2) **(F,W,S)**
Individual instruction in applied music on flute, oboe, clarinet, bassoon or saxophone.

FINE ARTS

THEATRE MAJORS

LOWER DIVISION PREPARATION:

Required Courses:

Acting	3 semester hours
Stagecraft	3 semester hours
Stage Lighting	3 semester hours

(Equivalent life experience acceptable upon approval.)

Recommended Courses:

Dance	3-6 semester hours
Costuming	3 semester hours
Voice for the Stage	3 semester hours
Theatre Workshop	3-6 semester hours

UPPER DIVISION PROGRAM:

Required Courses:

Theatre (Major Area: Performance or Production)	30 quarter hours
Theatre History	10 quarter hours
Theatre Electives	20 quarter hours
Non-Theatre Electives	30 quarter hours

THEATRE

SPE 305 – PUBLIC SPEAKING (5)
Study of the principles of ethical and effective public speaking with practice in the construction and delivery of original speeches before an audience.

THE 305 – SURVEY OF THE THEATRE ARTS (5)

A consideration of all the dramatic elements of the theatre; television, film and live theatre. Designed for the non-theatre student to generate an awareness and appreciation of the theatre.

DAN 315 – DANCE (5)

Basic stage movement. Development of the body as an instrument of expression. (May be repeated)

DAN 515 – DANCE (5)

With some basic stage movement experience, the student will do movement studies to develop impulses to rhythm and melody patterns. (May be repeated.)

THE 315 – VOCAL TECHNIQUES (2)

Development of breath control, diction, resonance and related vocal music techniques. (For Theatre Majors only.)

THE 316 – BASIC ORAL INTERPRETATION (5)

Development of the voice as an instrument for expressive interpretation of literature.

THE 317 – ACTING (5)

With a fundamental knowledge of stage nomenclature, vocal and physical performance skills, audition and rehearsal techniques, the student will focus on developing a character within a particular acting style. Extensive study and practice in scenes from period plays. (May be repeated)

THE 517 – ACTING (5)

With a thorough knowledge of all aspects of the actor's craft and a highly motivated background of performance experience, the actor will concentrate on refinement of ensemble playing techniques in a total performance situation which will be presented for an audience. (May be repeated.)

THE 325 – DIRECTING (5) **(W,S)**

A study of fundamental directing principles. Areas included will be: choice of play and its analysis, casting, blocking, rehearsal techniques and coordination of cast and production personnel. Students will direct short scenes for performance. (May be repeated)

THE 525 – DIRECTING (5)

With a broad understanding of basic directing skills and some directing experience, focus will be on methods of unifying all production elements toward the finished performance. Students will direct a play for public performance. (May be repeated.)

THE 335 – STAGECRAFT (5) (W)
A lecture-laboratory course covering the basic elements of scenery construction, painting, rigging and stage properties.

THE 535 – STAGECRAFT (5)
Advanced studies of the scene technician's craft with emphasis on the creative use of modern materials and methods. Selection and cost of materials, multi-media effects, sound effects, advanced stage carpentry and stagecraft supervision will be covered.

THE 336 – STAGE LIGHTING (5) (S)
The study of elementary electricity, lights and circuits; basic techniques of designing and executing lighting for the stage.

THE 337 – STAGE MAKEUP (5) (S)
Fundamentals of straight and character makeup. The application of principles governing line, color, light and shade to makeup. Practical experience through production participation.

THE 339 – BLACK THEATRE TECHNIQUES (5)
Study and practice of production methods unique to the Black performer and Black Theatre; i.e., making-up and lighting the Black performer, play selection, rehearsal techniques. (May be repeated.)

THE 345 – THEATRE DESIGN (5) (S)
Fundamentals of design for the theatre. Included are methods of analysis and research, technical drawing and rendering.

THE 545 – THEATRE DESIGN (5)
With a knowledge of the fundamentals theatre design, the student will survey historical styles and work with advanced directing students to design and execute scenery for a play.

THE 328 – CHILDREN'S THEATRE (5) (SS)
Techniques of selection, production and performance of plays for children.

THE 527 – CREATIVE DRAMATICS (5)
The study of informal drama activity for children. Techniques of improvization, sense recall, music and movement are employed. Permission of the instructor required.

THE 531 – STAGE COSTUMING (5)
Study of period costume design with emphasis on research techniques, design adaptation, cut fabric, and decorative detail for stage costume.

THE 532 – STAGE COSTUMING (5)
A continuation of THE 531. Applied studies in design adaptation, pattern drafting and total costume.

THE 551 – DEVELOPMENT OF THE THEATRE (5)
A survey of theatre architecture, modes of production, major figures and trends in the theatre from its origins to Turgenev.

THE 552 – DEVELOPMENT OF THE THEATRE (5)
A continuation of THE 551. Survey will be from Turgenev to the present.

THE 555 – DEVELOPMENT OF BLACK THEATRE IN AMERICA (5)
A historical survey of the Black performer in America. Primary emphasis on current trends in Black Theatre.

THE 565 – PLAYWRITING
Study of the theory and principles of writing plays for the stage. Practice in writing either the short or long play. (May be repeated.)

THE 575 – THEATRE MANAGEMENT (5)
Basic studies in methods of audience promotion and service, i.e., publicity, box office and house management.

THE 585 – PERFORMANCE AND PRODUCTION (1-15)
Supervised work in actual university, community, or professional theatre production on an internship basis. Credit will vary with amount of time and responsibility involved. (If taken for less than maximum credit, may be repeated for a total of not more than 15 quarter hours.)

THE 595 – RESEARCH (1-5)
Supervised individual investigation of special research projects. Credit will vary with the nature and scope of the project. (May be repeated.)

THE 357 (F), 358 (W), 558 (S) –
See course descriptions of FIA 357, 358, 558 pages 51, 52.

HISTORY MAJORS

LOWER DIVISION PREPARATION:

Required Courses: None

Remarks: Six (6) hours of Advanced History courses may be counted toward the upper division major.

UPPER DIVISION PROGRAM:

Required Courses:

Introduction to History (HIS 301)	5 quarter hours
General History Courses	40 quarter hours
Electives	45 quarter hours
	90 quarter hours

HISTORY

HIS 301 – INTRODUCTION TO HISTORY (5) **(F,S)**
A study of why and how people read and write history. Emphasis will be upon the uses of history and historians' assumptions. Required of all majors and those seeking certification to teach history.

HIS 304-305 – ANCIENT HISTORY (5,5) **(W,S)**
An examination of the society, politics, literature and arts of Greece and Rome.

HIS 310-311 – MEDIEVAL EUROPEAN HISTORY (5,5) **(F,W)**
An examination of European life, culture and ideas from the fall of the Roman Empire to the Renaissance.

HIS 313-314 – EARLY MODERN EUROPEAN HISTORY (5,5) **(W,S)**
An examination of European civilization from the sixteenth century to the French Revolution.

HIS 316-317 – MODERN EUROPEAN HISTORY (5,5)
An examination of Europe from the French Revolution to the twentieth century.

HIS 320-321 – EARLY UNITED STATES HISTORY (5,5) **(F,W)**
An examination of American society from the earliest settlements to the Revolutionary Era up through the Jacksonian period.

HIS 323-324 – MODERN UNITED STATES HISTORY (5,5) **(W,S)**
An examination of American society from the rise of Industrialism to the 1960's.

HIS 330-331 – EARLY LATIN AMERICAN HISTORY (5,5) **(F)**
An examination of Latin American societies and civilizations from the pre-colonial period to the national revolutions.

HIS 333-334 – MODERN LATIN AMERICAN HISTORY (5,5) **(W)**
An examination of Latin American society and civilizations from the 1850's to the present.

HIS 340-341 – RUSSIAN HISTORY (5,5)
An examination of Russian society and politics from the Kievian period, through the Medieval Era to the foundation of the Soviet Union.

HIS 350-351 – ASIAN HISTORY (5,5) **(F,W)**
An introductory examination of various aspects of different Asian societies, cultures and nations.

HIS 360-361 – AFRICAN HISTORY (5,5)

An introductory examination of various aspects of different African societies, cultures and nations.

HIS 370-371 – MIDDLE EASTERN HISTORY (5,5)

An introductory examination of various aspects of different Middle Eastern societies, cultures and nations.

HIS 375 – REGIONAL AND NATIONAL HISTORY: EUROPE (5)

A study of the histories of a particular country or area of Europe, Germany, France, England, etc. The subject matter will change quarterly. (See the quarterly course listing for the country under study).

HIS 380 – REGIONAL AND NATIONAL HISTORY: U.S. AND CANADA (5)

A study of the history of the particular countries or areas of Anglo and Franco North America, the South, the Great West, Quebec, etc. The subject matter will change quarterly. (See the quarterly course listing for the country under study).

HIS 385 – REGIONAL AND NATIONAL HISTORY: LATIN AMERICA (5)

A study of the histories of a particular country or area of Latin America, Mexico, the River Platt, the Caribbean, etc. The subject matter will change quarterly. (See the quarterly course listing for the country under study).

HIS 390 – REGIONAL AND NATIONAL HISTORY: ASIA (5)

A study of the histories of a particular country or region of Asia, China, India, Southeast Asia, etc. The subject matter will change quarterly. (See the quarterly course listing for the country under study).

HIS 395 – REGIONAL AND NATIONAL HISTORY: AFRICA

A study of the histories of a particular country or region of Africa, West Africa, East Africa, Nigeria, etc. The subject matter will change quarterly. (See the quarterly course listing for the country under study).

HIS 397-398 – SPECIAL TOPICS (Variable) (F,W,S,SS)

A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. Requires consent of the chairman.

HIS 399 - INDEPENDENT STUDY (Variable) (F,W,S,SS)

Individual conferences, assigned readings, reports on independent investigations with the consent of the chairman.

HIS 401 – WRITING HISTORY (5) (F,S)

A course designed to deal with the problems involved in written arguments, stylistics, style and the use of sources.

HIS 405 – POLITICAL HISTORY (5) **(W,S)**

An examination of political parties, factions and trends and their relationship to history. Each time this course is offered it will focus upon a specific political problem, party, etc., of a particular nation or society during one historical epoch. With a change in content or professor, this course may be repeated.

HIS 410-414 – INTELLECTUAL HISTORY (5) **(W,S)**

An examination of the ideas and images that have governed men and that men have used to understand their own actions in various historical contexts. Each time this course is offered it will focus upon specific problems (Puritanism, Humanism, etc.) of a particular nation or culture during one historical epoch. With a change in content or professor, this course may be repeated.

HIS 415-419 – SOCIAL HISTORY (5) **(F,W,S)**

An examination of social forces, classes and institutions and their impact upon historical events. Each time this course is offered it will focus upon a specific social institution or problem of a particular nation or culture during one historical epoch. With a change in content or professor, this course may be repeated.

HIS 420-424 – CULTURAL HISTORY (5) **(F,W,S)**

An examination of the arts and their relation to history. Each time this course is offered it will focus upon particular artistic expression (painting, jazz, etc.) of a particular nation or culture during one historical epoch. With a change in content or professor, this course may be repeated.

HIS 425-429 – ECONOMIC HISTORY (5)

An examination of economic forces, institutions, thoughts, systems; their impact upon history. Each time this course is offered it will focus upon a particular economic problem of a particular nation or culture during one historical epoch. With a change in content or professor, this course may be repeated.

HIS 430-434 – URBAN HISTORY (5) **(F,S)**

An examination of the city in history. With a change in content or professor, this course may be repeated.

HIS 435-439 – RACIAL AND ETHNIC HISTORY (5) **(W)**

An examination of particular races and ethnic groups and their impact upon different cultures and societies; it will also focus upon immigration, etc. With a change in content or professor, this course may be repeated.

HIS 440-444 – DIPLOMATIC HISTORY (5) **(S)**

An examination of the relations between nations or the origins of an individual nation's foreign policy. Each time this course is offered it

will focus upon a particular problem in international relations. With a change in content or professor, this course may be repeated.

HIS 445-449 – CONTEMPORARY HISTORY (5)

An examination of particular problems, influences and events in the contemporary world. With a change in content or professor, this course may be repeated.

HIS 450-454 – PSYCHOHISTORY (5) (F,W)

An examination of the concept of the self and individual identity, of mental and social deviance in different historical contexts. With a change in content or professor, this course may be repeated.

HIS 445-459 – INDIVIDUALS AND HISTORY (5)

An examination of particular individuals and their roles in a society. Each time this course is offered it will focus upon a specific individual or group of individuals of a particular nation or culture during one historical epoch. With a change in content or professor, this course may be repeated.

HIS 460-464 – LABOR HISTORY (5) (F)

An examination of labor and workers and their impact upon historical events. Each time this course is offered it will focus upon specific problems of labor in particular nations or societies during one historical epoch. With a change in content or professor, this course may be repeated.

HIS 465-469 – SCIENCE AND TECHNOLOGY IN HISTORY (5)

An examination of scientific revolutions and conceptions of science and their implementation in social thought and technology. Each time this course is offered it will focus upon a particular scientific revolution, etc., during one historical epoch. With a change in content or professor, this course may be repeated.

HIS 470-474 – RELIGION IN HISTORY (5) (F,W)

An examination of religious ideas and religious institutions in history. Each time this course is offered it will focus upon a particular church, religion, etc. With a change in content or professor, this course may be repeated.

HIS 475-479 – EDUCATION IN HISTORY (5) (S)

An examination of the concepts of childhood and process of social initiation in differing historical contexts. With a change in content or professor, this course may be repeated.

HIS 480-484 – PHILOSOPHIES OF HISTORY (5) (W)

An examination of format conceptions of history and of philosophers of history such as Vico, Hegel, Marx, Bergson and Collingwood.

HIS 497-498 – SPECIAL TOPICS (Variable) **(F,W,S)**
A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. Requires consent of the chairman.

HIS 499 – INDEPENDENT STUDY (Variable) **(F,W,S)**
Individual conferences, assigned readings, reports on independent investigations with the consent of the chairman.

HIS 510 – STUDIES IN HISTORY I (5) **(F,W,S)**
Seminars open to advanced students with permission of instructor which will cover specialized topics in history. With a change in content or professor, this course may be repeated.

HIS 520 – STUDIES IN HISTORY II (5)
Seminars open to advanced students with permission of instructor which will cover specialized topics in history. With a change in content or professor, this course may be repeated.

HIS 530 – HISTORIOGRAPHY (5) **(W)**
An introduction to basic historical bibliography intended for prospective history teachers. Different sections of this course will focus upon European, United States, Latin American, etc., bibliography.

HIS 597-598 – SPECIAL TOPICS (Variable)
A course designed to give groups of students an opportunity to pursue special studies not otherwise offered. Requires consent of the chairman.

HIS 599 – INDEPENDENT STUDY (Variable) **(F,W,S)**
Individual conferences, assigned readings, reports on independent investigations with the consent of the chairman.

HUMANITIES MAJORS

LOWER DIVISION PREPARATION:

Required Courses: None

Recommended Courses:

Art	English	Drama
Foreign Languages	History	Music
Philosophy	Religion	

UPPER DIVISION PROGRAM:

Required Courses:
Fifteen (15) hours in each of four (4) areas chosen from the following:

English	Modern Languages	
Fine Arts	Philosophy	
History	Electives	30 quarter hours

MODERN LANGUAGE MAJORS

LOWER DIVISION PREPARATION:

Required Courses:
Four (4) semesters of Elementary and Intermediate Foreign Language.

UPPER DIVISION PROGRAM:

Required Courses:

Foreign Language	45 quarter hours*
Electives	45 quarter hours*

Remarks: Completion of at least three (3) quarters of a second foreign language will be recommended.

*Thirty (30) quarter hours for students enrolled in Teacher Education Program.

MODERN LANGUAGES
BEGINNING AND INTERMEDIATE LANGUAGE

The Department of Modern Languages offers a three-quarter sequence of instruction in French, German, Italian, Portuguese and Spanish.

301 – BEGINNING LANGUAGE INSTRUCTION (5)
Training in the acquisition and application of basic language skills.

FRE 301	(F)
GER 301	(F)
ITA 301	(W)
POR 301	(W)
SPA 301	(F)

302 – INTERMEDIATE LANGUAGE INSTRUCTION (5)
Continuation of 301. Emphasis on comprehension, reading, and vocabulary.

FRE 302	(W)
GER 302	(W)
ITA 302	(S)
POR 302	(S)
SPA 302	(W)

303 – ADVANCED LANGUAGE INSTRUCTION (5)

Taught in the foreign language. Emphasis on communication and language refinement. Readings from contemporary sources.

FRE 303	(S)
GER 303	(S)
ITA 303	(F)
POR 303	(F)
SPA 303	(S,F)

ADDITIONAL LANGUAGES

Contingent upon demand, the Department of Modern Languages will offer a three-quarter sequence in Chinese, Hebrew and Russian. A special two-quarter sequence in Latin, for students who have a knowledge of Romance Languages, will be offered every other year.

The following courses, numbered 305-515, may be offered in French, German, Italian, Portuguese or Spanish contingent upon student demand and the program needs of majors.

If a course using the MOL prefix is offered in more than one language in a given quarter, it will bear the appropriate prefix: e.g., FRE 325, SPA 325.

Unless otherwise indicated, MOL courses will be taught in the foreign language.

Courses numbered 311, 312, 313 and 314 are open to students, faculty and staff of Florida International on a credit/non-credit basis (credit given of 5 quarter hours). These courses are designed primarily for persons wishing to acquire basic conversational ability in a foreign language. As part of an experimental program in languages, these courses will be taught by native speakers enrolled as students at Florida International. (Consult course listing for specific sections in Chinese, French, German, Hebrew, Italian, Portuguese, Japanese, Russian and Spanish)

MOL 305 – CREATIVE WRITING/TRANSLATION (5)

Training through non-structured writing. Examination of various approaches to the problems and objectives of creative translation.

MOL 306 – STYLISTICS/EXPLICATION DE TEXTE (5)

Close reading and analysis of prose and poetry. Introduction to the methods of literary criticism. Selected readings in international sources.

MOL 307 – PHONETICS (5)

The application of phonetic theory and practice for speech

refinement. Study of sound patterns in communication and creative activity.

MOL 308 – APPLIED LINGUISTICS (5)
Examination of available linguistic materials for self-instruction. Problem-solving in syntax and phonetics through the application of modern/traditional methods. (In English)

MOL 309 – INTRODUCTION TO GENERAL LINGUISTICS (5)
Examination and synthesis of the concepts and perspectives of major contributions to language theory. (In English)

MOL 311 – (BEGINNING) INTENSIVE LANGUAGE INSTRUCTION (5) (F,W,S)
Emphasis on basic conversation for everyday use.

MOL 312 – (INTERMEDIATE I) INTENSIVE LANGUAGE INSTRUCTION (5)
Concentrated language instruction for the acquisition of reading/comprehension skills.

MOL 313 – (INTERMEDIATE II) INTENSIVE LANGUAGE INSTRUCTION (5)
Open to students with some speaking ability in the foreign language. Emphasis on skills for improving communication.

MOL 314 – ADVANCED INTENSIVE LANGUAGE (5)
Open to students with advanced intermediate ability in the foreign language. Although verbal skills will be emphasized, some reading and writing will be taught.

MOL 315 – CORRECTIVE GRAMMAR/WRITING (5)
Designed for non-native speakers with some previous knowledge of the language.

MOL 325 – INTERMEDIATE SYNTAX/COMPOSITION (5)
Practice in contemporary usage through selected readings in culture and civilization. Development of writing and speaking ability in extemporaneous contexts. The course will be conducted exclusively in the target language.

MOL 326 – ADVANCED SYNTAX/COMPOSITION (5)
Examination of grammatical theory; discussion of the modern essay. Practice in the detection and correction of errors in usage. The course will focus on current international events as content for informal talks and composition.

MOL 327 – COMMUNICATION ARTS (5)
Oral interpretation and dramatic reading. Original and non-original texts will be the content of the course. Study of shared modes of

experience and their individual linguistic expression in an acquired language.

MOL 328 – TRANSLATION SKILLS (5)
Emphasis on basic principles and practical application.

MOL 335 – HISTORY OF THE LANGUAGE (5)
The internal and external history of language development. Examination of model texts from key periods of evolution.

MOL 336 – DIALECTOLOGY (5)
Definition and analysis. Problem-solving in dialect classification.

MOL 337 – ROMANCE LINGUISTICS (5)
The common and distinctive romance features. Survey of linguistic geography and internal/external influences.

MOL 355 – INTELLECTUAL HISTORY (5)
The interaction or dissociation among writers in a critical historical period. Study of primary sources and their contemporary evaluations.

MOL 356 – LITERATURE OF REFORM (5)
The consciousness of change in verbal art.

MOL 357 – LITERATURE OF REPRESSION (5)
The consciousness of constraints, their adoption and/or rejection in verbal art.

MOL 358 – BI-CULTURAL WRITINGS (5)
Experiment in linguistic pluralism. Content and focus to be determined by the international community.

MOL 359 – PROSE AND SOCIETY (5)
The dynamics of participation and alienation among prose writers and their environment.

MOL 360 – CIVILIZATION I (5)
Open to any student who understands the target language (French, Spanish, Portuguese, etc.) The development of a particular civilization. Emphasis on the evolution of a society, its ideas/and its values.

MOL 365 – LITERATURE IN TRANSLATION (5)
Masterpieces of world literature in English. Comparative use of the original text. Discussion and interpretation.

MOL 397 – SPECIAL TOPICS (5)
Readings and discussion of literary/linguistic topics to be determined by students and teacher.

MOL 398 – INDEPENDENT STUDY (5)
Project, field experience, readings, or apprenticeship.

MOL 399 – FOREIGN STUDY (15)
Intermediate level. One quarter full-time credit in foreign residence and study. Individual cases will be evaluated for approval.

MOL 405 – CREATIVE MODES (5)
Discussion of a single mode or a plurality of epoch styles such as classical/baroque, realism/surrealism. The peculiar/common features of expressive media.

MOL 406 – GENRE STUDIES (5)
Examination of a single literary form (e.g., short story, poetry), or the study of interaction between literary types (e.g., novel and drama).

MOL 407 – THE LITERARY GENERATION (5)
The real and apparent shared ideals of an artistic generation; its influence and range.

MOL 408 – LITERATURE INTO FILM (5)
Approaches to the visual conversion/recreation of international texts. Tentative formulation of criteria for appreciation of the text as film.

MOL 411 – LANGUAGE SKILLS FOR PROFESSIONAL PERSONNEL (5)
The course is geared to the special linguistic needs of community groups (medical, business, technical, etc.).

MOL 428 – PROFESSIONAL TRANSLATION (5)
Techniques and resources for professional translation. Prerequisite: MOL 328

MOL 435 – BIBLIOGRAPHY AND METHODS OF RESEARCH (5)
Survey of the alleged tools, resources and limitations of research and scholarship in the humanities. Emphasis on non-English sources and practices. Formulation of desirable objectives.

MOL 436 – LITERARY THEORY AND PRACTICE (5)
The possibility and potential of criticism.

MOL 438 – PROBLEMS IN READING AND INTERPRETATION (5)
The identification and appreciation of techniques for sensitive reading and discussion of literary texts.

MOL 439 – TECHNIQUES AND CRITERIA OF COMPARATIVE LITERATURE (5)
The interdisciplinary and para-disciplinary assumptions of com-

paratist studies. Formulation of working techniques from various approaches.

MOL 455 – SENIOR SEMINAR (5)
Topic and approach to be determined by students and instructor.

MOL 460 – CIVILIZATION II (5)
Open to any student who understands the target language (French, German, Spanish, etc.) The making of a modern culture. The ideological, political and economic background of contemporary culture.

MOL 465 – EUROPEAN LITERATURE IN TRANSLATION (5)
For students proficient in more than one foreign language. Content and focus to be determined by students and teacher.

MOL 475 – CONTRASTIVE PHONOLOGY (5)
For students proficient in more than one foreign language. Choice of languages to be determined by students and teacher.

MOL 476 – CONTRASTIVE MORPHOLOGY (5)
For students proficient in more than one foreign language. Content and emphasis to be determined by students and teacher.

MOL 477 – ADVANCED DIALECTOLOGY (5)
Computer programming of dialects. Analysis of taped speakers and primary sources.

MOL 478 – PROBLEMS IN LANGUAGE LEARNING (5)
Primarily designed for prospective teachers but open to all interested students. The course will aim to devise an approach to difficulties in syntax, usage, reading and comprehension commonly experienced.

MOL 479 – STUDIES IN BI-LINGUALISM (5)
Readings and analysis of bi-lingual programs and bi-national goals.

MOL 497 – SPECIAL TOPICS (5) **(S)**
Independent readings, research, or project.

MOL 498 – INDEPENDENT STUDY (5) **(F,W,S,SS)**
Project, field experience, readings, or research.

MOL 499 – FOREIGN STUDY: ADVANCED LANGUAGE/LITERATURE (15)
Full-quarter credit for foreign residence and study/work. (Approval of Department)

MOL 501 – LANGUAGE FOR READING KNOWLEDGE (5)
Designed primarily for graduate students who wish to attain

proficiency for M.A. and Ph.D. requirements. Open to any student who has no prior knowledge of the language.

MOL 502 – LANGUAGE FOR READING KNOWLEDGE (5)
Emphasis on translation of materials from the student's field of specialization. Prerequisite: MOL 501 or the equivalent.

MOL 505 – SPECIAL TOPICS IN LINGUISTICS (5)
Content to be determined by students and teacher. (Approval of Department).

MOL 506 – GENRE STUDIES (5)
Examination of a single literary form (e.g., short story, poetry), or the study of interaction between literary types (e.g., novel and drama).

MOL 510 – COMPARATIVE STUDIES (5)
Cross-over and distinctiveness in a multi-language problem, period, or esthetic.

MOL 515 – SPECIAL TOPICS IN LANGUAGE/LITERATURE (5)
Content and objectives to be determined by students and teacher.

MOL 527 – COMMUNICATION ARTS (5)
Oral interpretation and dramatic reading. Original and non-original texts will be the content of the course. Study of shared modes of experience and their individual linguistic expression in an acquired language.

MOL 528 – TRANSLATION ARTS (5)
Prerequisite: MOL 428. Techniques of professional translation.

MOL 537 – ROMANCE LINGUISTICS (5)
The common and distinctive romance features. Survey of linguistic geography and internal/external influences.

MOL 558 – BI-CULTURAL WRITINGS (5)
Experiment in linguistic pluralism. Content and focus to be determined by the international community.

MOL 556 – LITERATURE IN TRANSLATION (5)
Masterpieces of world literature. Open to students who are proficient in more than one language.

MOL 570 – GRADUATE SEMINAR (5)
Topic and approach to be determined by students and instructor. (Approval of the Department)

MOL 579 – STUDIES IN BI-LINGUALISM (5)
Readings and analysis of bi-lingual programs and bi-national goals.

PHILOSOPHY, RELIGIOUS STUDIES AND INTERDISCIPLINARY: PHILOSOPHY AND RELIGIOUS STUDIES MAJORS

LOWER DIVISION PREPARATION:

Required Courses: None.

Recommended Courses: Philosophy, Religion.

UPPER DIVISION PROGRAM:

Required Courses:

Core Courses in Major	20 quarter hours
Related Courses in Major	15 quarter hours
Courses in Another Discipline	20 quarter hours
Elective Courses	35 quarter hours

Remarks: The selection of core and related courses, with the approval of a faculty member of the Department, should strive to achieve a balance between the historical, the systematic and the thematic perspectives of the courses offered. Students are encouraged to intensify their chosen major concentration, particularly through seminar work and independent research, for which purpose they may employ some of the 35 quarter hours designated for electives.

Furthermore, students in general are encouraged to consider the possibility of a dual major concentration. They may thus meet the requirements for two majors within the limits of their program of studies for a Bachelor's degree. In this case, the 20 quarter hours of core courses and the 15 quarter hours of related courses constitute the essential requirement for their major concentration in the Department.

PHILOSOPHY

PHI 300 – INTRODUCTION TO PHILOSOPHICAL THINKING (5)

This introductory course examines the presence of philosophy and the role of philosophizing in man's search for understanding of himself and of his world. It includes the study of the basic structure, the many applications and some basic issues of philosophical thinking through a dialogue with those original sources more accessible for a first learning experience in philosophy and which represent basic events in the history of philosophizing.

PHI 301 – LOGIC AND PROBLEM SOLVING (5)

This introductory course in logical thinking and argumentation will treat both practical and theoretical approaches to understanding human communications and solving problems. Students will be introduced to inductive and deductive logic, fallacies, and the role of logic in scientific explanation and popular expression.

PHI 302 – KNOWLEDGE, THINKING, AND CREATIVITY (5)

The viewpoints of various philosophers and schools of thought regarding types of knowledge, certitude, and creativity are the main emphasis of this introductory course. The meaning of truth and truthfulness is analyzed from both the classical and the contemporary perspectives.

PHI 303 – WHAT IS REALITY? (5) (W)

This introductory course examines basic metaphysical questions regarding the nature of reality, as well as the meaning of these questions for man's concept of himself and his world. Fundamental texts from Greek, medieval and contemporary philosophers will be considered.

PHI 304 - FUNDAMENTAL ETHICAL ISSUES (5) (S)

The possibility and validity of ethical knowledge and value systems will be considered in this introductory course. The ethical dimensions of such notions as pleasure, happiness, duty, responsibility for action and life style will be discussed in the context of several classical and contemorary problems and issues.

PHI 311 – ANCIENT PHILOSOPHIES (5) (S)

The basic concerns and teachings of representative philosophers and schools of thought, particularly in the Greek and Roman cultural settings, and linkages to their past and future are emphasized in this course.

PHI 312 – MEDIEVAL PHILOSOPHIES (5).

The basic concerns and teachings of representative philosophers and schools of thought in the cultural settings of the Medieval and early Renaissance Periods, and linkages to their past and future, are emphasized in this course.

PHI 313 – EARLY MODERN PHILOSOPHIES (5)

The basic concerns and teachings of representative philosophers and schools of thought in the cultural settings of the late Renaissance and Reformation Periods, and linkages to their past and future are emphasized in this course.

PHI 316 – CHINESE AND JAPANESE PHILOSOPHIES (5)

This course will examine the main currents of Chinese and Japanese thought, with special focus on the quest of the Chinese people toward a more harmonious adjustment to their environment. The investigation will include consideration of the Confucian, Mohist, Taohist, Legalist and Zen Buddhist philosophies.

PHI 318 – LATIN AMERICAN PHILOSOPHIES (5)

This course will examine the development of Latin-American thought, with particular attention to the 19th and 20th centuries. It will consider the traditions and initiatives of prominent Latin-American philosophers in the light of problems such as personal and cultural identity.

PHI 320 – HUMANISTIC AND SCIENTIFIC PERSPECTIVES (5)

After a review of several basic philosophical notions, the assumptions and methodologies and consequences of the humanities and the social and natural sciences will be discussed. Topics will be selected from current issues.

PHI 325 – PHILOSOPHIES OF SOCIETY (5)

After an introduction to the various dimensions of social philosophy, in its relationship to other philosophical disciplines, to the social sciences and to social ideologies, this course will examine some of the fundamental questions raised by human experience regarding the origins, the purposes and types of society. The readings will be chosen from the works of contrasting major social thinkers.

PHI 326 – PHILOSOPHIES OF EDUCATION (5) (W)

Notions of philosophy and education will be applied in the review of prominent philosophies of education. Special attention will be given to the development of the student's own philosophy of education, and to the importance of philosophical assumptions in curriculum designs and teaching strategies.

PHI 327 – PHILOSOPHIES OF HISTORY (5)

After exploring the definitions, dimensions and interrelations of philosophy and history, students will examine major philosophies of history. Discussions about the social responsibility of the historical narrative and the philosophical assumptions of historiographies will be provided.

PHI 328 – PHILOSOPHIES OF SCIENCE (5)

The philosophic background of scientific method will be examined. Attention will be given to the philosophical consequences of conceptual change in the sciences. Such topics as the growth and unity of science, explanation and prediction, and the role of science in society will be explored.

PHI 329 – PHILOSOPHIES OF BEAUTY AND ART (5)

An introduction to problems in aesthetics, with emphasis on those problems which are especially relevant to appreciation and criticism in the arts. Typical problems include the relation between form and content, truth and falsity in art, the nature of emotion in art and of the aesthetic response, as well as the nature of art itself. This course will include a study of selections from the writings of major thinkers and the consideration of those works of art which are relevant to this study.

PHI 401 – FORMAL LOGIC (5)

The emphasis of this course is on the theoretical properties of logical systems rather than on their use. The student will be introduced to a selection of advanced logical topics, including some of the chief results of modern logic (e.g. completeness of quantification logic). Prerequisite: An introduction to Logic such as PHI 301.

PHI 404 – VALUE THEORIES (5)

Several questions will be examined in this course in the context of classical and contemporary value theories. What is value? How are values known? What are the determinants of value? How do values differ from beliefs and attitudes? Are values relative?

PHI 410 – MODERN PHILOSOPHIES (5)

The basic concerns and teachings of representatives philosophers and schools of thought in the cultural settings of the 18th and 19th centuries, and linkages to their past and future are emphasized in this course.

PHI 411 – CONTEMPORARY PHILOSOPHIES (5)

The basic concerns and teachings of representative philosophers and schools of thought in the cultural settings of the present century, and linkages to past and emerging generations are emphasized in this course.

PHI 413 – PRAGMATISM AND IDEALISM (5)

This course will focus on pragmatism and post-Kantian idealism as developed in late 19th and early 20th century American philosophy. In examining these rival positions, some basic philosophical questions will be considered, such as who constitutes the subject of knowledge and what is the relationship between theory and practice.

PHI 414 – ANALYTICAL PHILOSOPHY (5)

This course examines the 20th century Anglo-American tradition whose aim is to solve philosophic problems by the methods of linguistic analysis. It will include study of techniques of linguistic analysis and an evaluation of their adequacy in dealing with meaning and truth, the mind-body problem, and free will.

PHI 415 – MODERN EXISTENTIALISM (5)

This course examines the origin, the basic philosophical insights, and the influence of the mainstreams (French, German, Russian, Spanish) of modern existentialism.

PHI 416 – PHENOMENOLOGY (5)

This course analyzes the method, the basic philosophical insights, and the applications of contemporary (German and French) phenomenological thinking. It will include both the experiencing of phenomenological awareness (of freedom, of knowledge, of encounter) and the study of original texts.

PHI 418 – MARXISM (5)

This course examines the philosophic insights of Marx and the main trends (anthropological, social, existential) in contemporary Marxism. It includes an analysis of the Marxist interpretation of alienation, work and human authenticity.

PHI 420 – ETHICAL ISSUES IN BUSINESS (5)

After a review of basic questions regarding ethical knowledge, norms and systems, students will consider the ethical dimensions of current problems and issues facing the business manager or worker: corporate decisions, personal responsibility, product quality and performance, production, marketing and advertising, management and in general economic rationality.

PHI 421 – ETHICAL ISSUES IN POLITICS (5)

After a review of basic questions regarding ethics, politics and their relationship, students will consider with historical perspective some fundamental currents and alternatives in the field of political ethics, and then will examine the ethical dimension of some contemporary issues facing the citizen, the public and the political leader, such as credibility, technocracy, conflict of interest and violence.

PHI 422 – ETHICAL ISSUES IN HEALTH PRACTICE (5)

After examining the basic questions regarding ethical knowledge, norms and values, this course will consider the human and ethical dimension of current issues and conflicts encountered by the health practitioner, such as the meaning of human living and suffering, rights to life and death, personal responsibility, ethics of genetic control, mental health and ethical life, basic ethical attitudes of the health practitioner, population growth, euthanasia and socialized medicine.

PHI 427 – CHANGE AND ORDER IN SOCIETY (5)

This course will examine the dimensions of change and order in contemporary societies, developed and underdeveloped, with particular attention to the human values involved, in the light of different philosophical theories and socio-political ideologies.

PHI 430 – PHILOSOPHY OF LANGUAGE (5)

This course examines the phenomenon of language as an integral part of human culture and as the way of human encounter. It includes the contemporary structural and phenomenological analysis of the meaning of language, the power and limitations of speech, the relationship between thought and language, the non-rational thought process and its influence upon rational thought and language, and the power and magic of the word.

PHI 431 – PHILOSOPHY OF DIALOGUE (5)

This course examines the meaning, the foundations, and the limitations of dialogue and the dialogical structure of the phenomena of expression, communication, education and human relationships. It includes a contemporary philosophical analysis of the dialogical principle and the application of its insights to the problems of human living and knowing.

PHI 435 – PHILOSOPHY OF DEATH (5) (S)

This course analyzes the meaning of death and man's attitude towards death and the dying. It examines how philosophy can share in the new confrontation between man and his death, and shows the ways philosophical thinking contributes to the discovery of an authentic attitude towards the phenomenon of death as part of human living. The theme of death with dignity will be discussed.

PHI 440 – PHILOSOPHY IN LITERATURE (5)

This course will examine modern philosophical currents as seen in the works of pertinent literary figures, such as Tolstoy, Dostoevsky, Conrad, Kafka, Koestler, Camus and Mann. Certain basic themes resulting from the merging of Aesthetic value and philosophic reflection will be examined: the self, alienation, history, the absurd, time and death.

PHI 441 – THEORIES AND ISSUES IN THE ARTS (5)

The assumptions and consequences of current and emerging issues and trends in the visual and plastic arts, as well as in music and drama, will be explored in terms of different classical and contemporary philosophical theories.

PHI 445 – PHILOSOPHIC PROBLEMS IN THE SCIENCES (5)

Selected philosophic problems of particular sciences will be explored. Depending on instructor and student interest, topics will be drawn either from the natural sciences (e.g. space and time in relativity theory) or from the social sciences (e.g. explanation and understanding in behavioral theories). Whenever topics are drawn from the social sciences, this course will be considered as equivalent of SOC 493 – *Basic Assumptions of Sociology,* for students majoring in programs of Sociology and Anthropology.

PHI 490 – INDEPENDENT RESEARCH (Variable)

Topics will be selected to meet the academic needs of the individual student.

PHI 495 – PHILOSOPHY SEMINAR (5)

This seminar is designed for majors and other qualified students approved by the Department, and will be guided by one or more faculty members. The specific topic will be selected and announced in advance. The number of participants will be limited.

PHI 591 – SPECIAL TOPICS (5)

Topics will be selected to meet the academic needs of groups of students.

RELIGIOUS STUDIES

REL 300 – VARIETIES OF RELIGIOUS EXPERIENCE (5)

An explanation of the nature of religious experience as it appears in the life stories of individuals. The course will include the life stories of the initiators of the great world religions as well as those of contemporary persons. The student will be encouraged to explore his own life story in the light of this prior discussion.

REL 301 – WHO IS GOD? (5)

This course will trace the idea of God from primitive culture through Greek, Hebrew and Christian thought to the contemporary situation. The various responses to the question of God given by particular groups in modern society will be examined in order to see the relevance of these responses for current issues and life styles.

REL 305 – REVELATION AND SCIENCE (5)

This course will explore science and revelation as basic avenues to knowledge of ultimate significance in an effort to discover their respective underlying assumptions. In response to those who raise questions about religious beliefs in ways that demand evidence and reasons, it will then discuss such sources of revelation as scripture, prophecy, incarnation, miracle, natural order, religious experience and mysticism.

REL 306 – FAITH AND ETHICS (5)

This course will examine the nature of ethics in its relationship to faith orientation. After considering the various religious foundations of ethics in the thought of influential ethical thinkers, attention will be given to the application of these perspectives to pressing ethical problems in contemporary society.

REL 307 – MAGIC, MYTH AND RELIGION (5)

The rationale and practice of magic will be investigated along with

basic mythological concepts in select primitive and contemporary religious groups in order to understand the dynamics and functions of magic and myth in these faith orientations.

REL 310 – BIBLICAL WRITINGS AND THOUGHT (5)

An introductory survey of the Old and New Testament from the points of view of historical background, the cultures in which the works were written, and the ideas they contain. Emphasis will be given to the relevance of biblical themes for the contemporary situation.

REL 312 – THE PROPHETS (5)

What is a prophet? This course will attempt to answer this question both in terms of the classic Hebrew prophets, whose acts and words are preserved in the Old Testament, and the nature of the prophetic vocation in the contemporary world.

REL 315 – JESUS IN HIS AND OUR TIMES (5)

This course is a study of the life of Jesus through an examination of his acts and words as recorded by his contemporaries in the New Testament. Attention will also be given to the interpretation of Jesus' message by theologians and others as they seek to relate him to the modern world.

REL 317 – THEOLOGY OF PAUL (5)

This course will survey the life and times of Paul as a prelude to an in-depth study of this primary Christian thinker. Attention will be given both to the sources of his thought and to its contemporary relevance.

REL 323 – JUDAISM (5)

This course is an introduction to this major world religion. Following a survey of the history of Judaism, major themes in Jewish religious thought will be highlighted, especially as they relate to modern movements of this faith.

REL 326 – EARLY CHRISTIANITY (5)

This course will survey the development of Christian thought and practice from its beginnings as a primitive church to its establishment as a major faith in the Middle Ages. It will then consider the relevance of this early experience for modern movements of this faith.

REL 330 – ISLAM AND ISLAMIC MYSTICISM (5)

The study of Islam as a major world religion in terms of its history, scripture, and practice. Emphasis will also be given to the various types of mysticism associated with Islam and to modern movements of this faith.

REL 340 – JUDAIC PRAYER (5)

This course will examine the nature and place of prayer in modern Judaism. After a survey of the place of prayer in the life and history of ancient Israel as reflected in Hebrew Scriptures and Rabbinic writings, attention will be focused on the teachings concerning prayer and its practice in contemporary Jewish worship and spirituality.

REL 400 – NEW OPTIONS IN RELIGIOUS EXPERIENCE (5)

An examination of the methods for studying religious experience will be followed by an application of the results to the numerous types of religious phenomena currently being promoted in our culture. These include Witchcraft, Zen, pentecostalism, drug experience, revivals, Jesus people, Hare Krishna, and spiritualism.

REL 401 – GOD, WORLD AND PROCESS (5)

The Process thought of the school founded by Alfred North Whitehead is a widely respected attempt to make the concept of God understandable to the rational and empirical modern mind. This course will examine the important religious implications of Process Thought.

REL 403 – WHY SUFFERING AND EVIL?

The problem of evil is as perennial as it is perplexing in religious thought. This course will examine the major theological responses to the problem of evil and the fact of suffering in order to ascertain their adequacy and relevance of these responses for today.

REL 405 – ISSUES IN RELIGION AND SCIENCE (5)

An examination of the relationships between the perspectives of religion and science and the consequences of these relationships for our time. A different major topic will be selected and announced each time the course is offered.

REL 406 – RELIGIOUS VALUES AND TECHNOLOGY (5)

A study of religious value systems and the value systems of modern programs of technology will be undertaken for the purpose of evaluating these systems and using them most fully in constructing a human world.

REL 420 – CONTEMPORARY JUDAIC-CHRISTIAN RELIGIOUS THOUGHT (5)

This course will examine contemporary issues facing Judaism and Christianity, such as formulation of faith, institutional identity, liturgical prayer, ecumenism, marriage and social commitment. It will consider comparatively the manner in which Jewish and Christian theologians of today meet these issues.

REL 425 – NORTH AMERICAN RELIGIOUS THOUGHT (5)

The theological trends of this century will be traced through the

major schools of theological thought and their chief thinkers in North America.

REL 426 – CONTEMPORARY LATIN AMERICAN RELIGIOUS THOUGHT

The major trends of religious thought in Latin America and their impact on the society of the area will be investigated. Special reference will be made to Post-Vatican II theology and to very recent theologies of liberation.

REL 429 – STUDIES IN RELIGIOUS THINKERS (5)

A major religious thinker or school of thought will be examined in depth or compared with another major perspective. Possible figures include: Augustine, Aquinas, Luther, Calvin, Kierkegaard, Buber, Heschel, Barth, Tillich, Teilhard and Altizer. The specific thinkers or school of thought will be selected and announced in advance.

REL 435 – INSTITUTIONAL RELIGION IN NORTH AMERICA (5)

This course will examine the patterns and development or organized religion in North America. Of special interest will be an assessment of emerging changes in religious institutions with regard to their norms and social relevance. For example, the contrast between the more spontaneous and less structured movements and the more established institutional forms will be pursued.

REL 490 – INDEPENDENT RESEARCH (Variable)

Topics will be selected to meet the academic needs of the individual student.

REL 495 – RELIGIOUS STUDIES SEMINAR (5)

This seminar is designed for majors and other qualified students approved by the Department, and will be guided by one or more faculty members. The specific topic will be selected and announced in advance. The number of participants will be limited.

REL 591 – SPECIAL TOPICS (5)

Topics will be selected to meet the academic needs of groups of students.

INTERDISCIPLINARY:

PHILOSOPHY AND RELIGIOUS STUDIES

PHR 300 – MEANING OF LIFE (5)

This introductory course examines the convergent and divergent views of philosophies and religions regarding the meaning of life.

Special emphasis is given to the variety of strategies available to the individual in the personal search for such meaning.

PHR 310 – EASTERN PHILOSOPHICAL AND RELIGIOUS THOUGHT (5)

This introductory course examines the development of philosophical and religious thought in the East, from ancient to modern times. Hinduism, Buddhism, Confucianism, Taoism and other major viewpoints will be considered, in themselves and in comparison with Western forms of thought.

PHR 311 – HINDUISM (5)

A critical analysis of the major philosophical systems and perspectives of Hinduism from its earliest and most religious background as reviewed in the Rig Veda, the Upanishads and the Bhagavad-Gita through the rise of the Sixth Systems.

PHR 312 – BUDDHISM (5)

An examination of the origins of Buddhism, its basic tenets and its view of man's place in the world. Also, attention will be given to the values of Buddhism as they have been expressed in diverse cultural, social and political forms.

PHR 315 – YOGA (5)

The transcendental understanding of ultimate truths through the ascetical practices of Yoga will be explored in this course.

PHR 326 – PHILOSOPHIES OF RELIGION (5)

This course will involve a study of the phenomena of religion as a means of identifying and evaluating its essential and universal element. Consideration will also be given to the relations between the enterprises of philosophy and religion. The result of these investigations will then be applied to specific topics examined by both disciplines.

PHR 327 – BASIC DILEMMAS IN FAITH AND REASON (5)

This course examines the nature and the boundaries of faith and reason, the phenomenon of contemporary atheism and the relationship between religion and the sciences. It shall approach these problems from both the philosophical and the religious perspectives, with an awareness that both human reason and religious faith strive for a basic and ultimate understanding of the world and man, and that, nevertheless, especially today, they confront each other in many ways, sometimes remain antagonistic, and very often present a serious dilemma to everyone who wants to arrive at a coherent and human grasp of personal living and reality.

PHR 400 – LOVE AND SEXUALITY

This course examines the different philosophical approaches to love

and sexuality and studies of the basic problems in human sexual living, such as love and the man-woman relationship, the formation of sexual union, and attitudes towards love and sexuality in contemporary society.

PHR 401 – HUMAN IDENTITIY (5)

This interdisciplinary course will explore the philosophical, religious and psychological views on personhood. Several questions will be examined: What constitutes personhood? What is the self-concept? What does it mean to be an authentic person? How free is any person.

PHR 426 – MAN AND NATURE (5)

This course examines the philosophical understanding of nature and of man's relation to nature as his environment. It will explore the humanistic perspectives of both the scientific and the philosophical interpretations of nature and environment. It will also deal with the diverse influence of technology and social organizations on the quality of human living through their impact on man's environment.

PHR 435 – PEACE AND SOCIETY (5)

Students will survey several cogent international questions and issues from the point of view of philosophical and religious thought: socio-political forces underlying peace/unrest, impact of social protest upon the ethical and political values of various cultures, the ideology and efficacy of non-violence, the economic and social costs of national defense/war/peace. Major Eastern and Western peace documents will be examined.

PHR 490 – INDEPENDENT RESEARCH (Variable)

Topics will be selected to meet the academic needs of the individual student.

PHR 495 – INTERDISCIPLINARY SEMINARY (5)

This seminar is designed for majors and other qualified students approved by the Department, and will be guided by one or more faculty members. The specific topic will be selected and announced in advance. The number of participants will be limited.

PHR 591 – SPECIAL TOPICS (5)

Topics will be selected to meet the academic needs of groups of students.

CERTIFICATE IN CARIBBEAN STUDIES

Director: Ken I. Boodhoo (Political Science)

Coordinating Committee: Ricardo Arias (Philosophy and Religion), Richard

Dwyer (English), Barry Levine (Sociology and Anthropology), Raul Moncarz (Economics), Ann Pescatello (History)

The University does not offer an undergraduate degree in Caribbean Studies, but it does provide a Certificate acknowledging that a student has demonstrated competence in course work pertaining to the study of the Caribbean. This Certificate is designed to meet the needs of those who have a general interest in Caribbean and Curcum-Caribbean affairs as well as those for whom work in Caribbean Studies would serve to assist in career planning or advancement.

A student can acquire a Certificate in Caribbean Studies by fulfilling the following requirements:

1) The successful completion of at least six courses (30 quarter hours) in Caribbean or Caribbean-related courses which are outlined below.
2) Courses must be selected from at least two different departments. The students should consult with departmental advisors in selecting courses.
3) With the advice of the Coordinating Committee, the student is encouraged to attain some degree of proficiency in one of the Caribbean languages, e.g. English, Spanish, French, other than that of his native tongue.
4) Fieldwork is encouraged.

In addition to the foregoing, all of the requirements normal for obtaining the Bachelor's Degree in the College of Arts and Sciences, or in one of the professional schools, must be met, including majors and minors appropriate to that degree.

A Coordinating Committee representing separate fields of knowledge and consisting of faculty engaged in the teaching of one or more courses in Caribbean Studies will grant the Certificate and serve in an advisory capacity for students.

The University offers the following courses from which the student who is desirous of earning the Certificate can select:

ANTHROPOLOGY

ANT 420 – CULTURES OF THE CARIBBEAN

ANT 422 – CUBAN CULTURE AND REVOLUTION

ECONOMICS

ECO 316 – ECONOMICS OF CENTRAL AMERICA

ECO 403 – THE ECONOMIC DEVELOPMENT OF CUBA–PAST AND PRESENT

ECO 410 – INTRODUCTION TO ECONOMIC DEVELOPMENT

ECO 437 – THE LATIN AMERICAN ECONOMICS

ECO 455 – LAS ECONOMICS LATIONAMERICANAS

ECO 526 – THE INTERNATIONAL ECONOMY

ENGLISH

ENG 440 – REGIONAL LITERATURE IN ENGLISH

HISTORY

HIS 385-389 – REGIONAL AND NATIONAL: LATIN AMERICA

NOTE: Various themes and topics in Caribbean History will also be taught under topical courses as listed in the catalog—See quarterly course listing from the Registrar's Office.

PHILOSOPHY AND RELIGION

PHI 318 – LATIN AMERICAN PHILOSOPHIES

REL 426 – CONTEMPORARY LATIN AMERICAN RELIGIOUS THOUGHT

POLITICAL SCIENCE

POS 307 – GOVERNMENT AND POLITICS OF THE CARIBBEAN

POS 316 – GOVERNMENT AND POLITICS OF CENTRAL AMERICA

POS 338 – RACE AND POLITICS IN THE CARIBBEAN

POS 403 – CUBAN POLITICS

POS 409 – TOPICS IN CARIBBEAN POLITICS

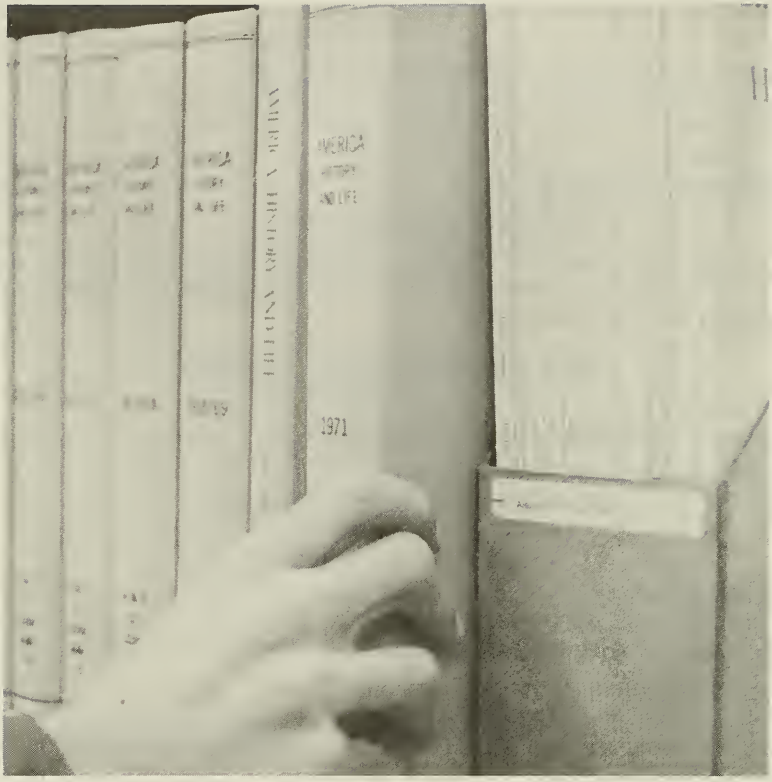
POS 429 – CONFLICT AND COOPERATION IN THE CARIBBEAN

POS 449 – INTERNATIONAL POLITICS OF THE CARIBBEAN

POS 559 – THE MULTI-NATIONAL CORPORATION AND CARIBBEAN DEVELOPMENT

SOCIOLOGY

SOC 436 – LATIN AMERICAN AND CARIBBEAN SOCIAL STRUCTURES



SOCIAL SCIENCES DIVISION

ANTHROPOLOGY AND SOCIOLOGY MAJORS

Anthropology is part of the Department of Sociology and Anthropology and all information should be obtained from that department's office.

LOWER DIVISION PREPARATION:

Ninety quarter hours (60 semester hours) or the AA degree from a community college (work should be pre-Arts and Sciences), or pre-Anthropology or Sociology if such programs exist. If the student does not have an AA degree, his background must reflect an ability to handle advanced academic work.

The quarter hours of lower division course work should include the following:

Required Courses:
Introduction to Cultural Anthropology,or
Introduction to Physical Anthropology, or
Introduction to Sociology

Recommended Courses:
Other Anthropology or Sociology courses.
Other Social Science courses (Ecology, Economics, Geography, History, Political Science, Psychology).
Other Arts and Sciences courses (Arts, Biology, English, Foreign Language, Mathematics, Philosophy).

UPPER DIVISION PROGRAM:

Program Requirements:
60 quarter hours in departmental major
30 quarter hours in electives

Required Courses:
Sixty quarter hours in the departmental major will be divided as follows:

Core Courses: 20 quarter hours

Anthropological Theories	(ASC 301)
Sociological Theories	(ASC 302)
Research Methods	(ASC 303)
Ethical Issues in Social Science Research	(ASC 304)

Area Courses: 40 quarter hours

For a concentration in anthropology, a mix of 25 quarter hours of anthropological and 15 quarter hours of sociological course work is recommended.

For a concentration in sociology, a mix of 25 quarter hours of sociological and 15 quarter hours of anthropological course work is recommended.

Electives: 30 quarter hours

Electives need the approval of your faculty advisor.

A course in introductory statistics is strongly recommended for students concentrating in sociology.

Students with special interests may consult faculty advisors for individualized programs.

Field Work Experience:
A meaningful understanding of anthropology and sociology can best be developed through the interplay of theory and research. Each student will be encouraged to work outside of the formal classrooom under faculty supervision.

ANTHROPOLOGY

Core Courses

ASC 301 – ANTHROPOLOGICAL THEORIES (5)

This course examines the process of theory building and explanation in the social sciences and outlines the historical and philosophical foundations of anthropological thought. Theorists and schools of thought reviewed include Darwin and evolution, Boas and historical particularism, Freud and culture and personality, and Malinowski and functionalism.

ASC 302 – SOCIOLOGICAL THEORIES (5)

Examines the emergence of sociology as the study of social relations. Compares and contrasts the work of selected theorists with respect to their methodologies, treatment of the emergence and consequences of modern society, political sociology, conception of social class and analysis of the role of religion in society. The student is expected to gain in-depth knowledge of opposing theories as well as an appreciation of the contingent nature of sociological theories.

ASC 303 – RESEARCH METHODS (5)

An introduction to the scientific method and its application to anthropological and sociological research. Topics include formulation of research problems, research design, field methods and collection of data, hypothesis testing and interpretation of results.

ASC 304 – ETHICAL ISSUES IN SOCIAL SCIENCE RESEARCH (5)

An introduction to the problems and possibilities of ethical premises in the perspectives and work of social scientists. Examination of historical interrelationships between moral philosophies and developing scientific methodologies. Analyses of contemporary social ethicists' attempts to assume moral postures while examining social relations. Case studies involving issues such as nation-building in areas of accelerated change including Africa and Asia.

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ANT 300 – INTRODUCTION TO SOCIAL SCIENCE (5)

An introduction to anthropology, psychology, and sociology; a survey of the similarities and differences in history, philosophy, and goals and techniques of research in these disciplines; and a review of modern interdisciplinary efforts.

ANT 301 – THE SCOPE OF ANTHROPOLOGY (5)

An introductory survey of the major areas of anthropological

inquiry, including social, cultural, physical and applied anthropology, as well as archeology and linguistics. An examination of the anthropological perspective.

ANT 302 – ORIGIN AND DISPERSION OF MAN AND WOMAN (5)
A study of the biological history of man as interpreted through the theory of evolution, anatomy and the fossil record, contemporary population genetics, and the concept of race.

ANT 303 – PREHISTORY OF THE AMERICAS (5)
Early man in the Americas is examined through archeological record.

ANT 304 – MAKERS OF MODERN ANTHROPOLOGY (5)
The craft of anthropology is explored through the work and writings of such well-known anthropologists as Ruth Benedict, L.S.B. Leakey, Claude Levi-Strauss, Oscar Lewis, Margaret Mead and Robert Redfield. Designed for non-majors; majors may enroll for elective credit only.

ANT 305 – SOCIAL BIOLOGY (5)
An examination of the biological bases for human adaptation and socio-cultural interaction.

ANT 311 – ANTHROPOLOGY OF CONTEMPORARY SOCIETY (5)
The application of classical anthropological methods and concepts to the analysis of contemporary American Culture. Investigation of a unique cultural scene will involve the student in field work and the preparation of an ethnographic report.

ANT 325 – KINSHIP AND SOCIAL ORGANIZATION (5)
Topics will include the comparative study of systems of kinship, social organization and politics in preliterate societies. Age and sex differences, division of labor, class, caste, slavery and serfdom will also be explored.

ANT 326 – MYTH, RITUAL AND MYSTICISM (5)
A survey of anthropological approaches to the study of myth, ritual and mysticism as religious and symbolic systems. The social and psychological functions of myth and ritual in primitive and complex societies will be compared.

ANT 327 – PEASANT SOCIETY (5)
Comparative study of peasant societies with emphasis on the concepts of folk community, traditional culture, and modernization. Data on peasantry in Latin America and other culture areas will be reveiwed.

ANT 328 – MOVEMENTS OF REBELLION AND REVITALIZATION (5)
Crosscultural study of revolutionary, messianistic, and revitalization

movements in tribal and peasant societies. Case materials include Negro slave revolts, cargo cults, and peasant wars of the twentieth century (Mexico, China, Vietnam).

ANT 335 – URBAN ANTHROPOLOGY (5)
Anthropological study of urbanization and urban life styles with particular emphasis on rural-urban migration and its impact on kinship groups, voluntary associations and cultural values.

ANT 336 – SOCIAL AND CULTURAL CHANGE (5)
A theoretical and applied analysis of cultural innovation and institutional change. Crosscultural case studies will be utilized.

ANT 337 – CULTURE AND PERSONALITY (5)
The relationship between culture and personality; problems of individual adjustment to cultural norms; and current issues in psychological anthropology.

ANT 338 – LANGUAGE AND CULTURE (5)
An examination of the relationship between language and culture, the implications of language for our perceptions of reality, and the socio-cultural implications of language differences for interethnic relations and international understanding.

ANT 355 – MEDICAL ANTHROPOLOGY (5)
A survey of basic concepts; examination of preliterate and nonwestern conceptions of physical and mental health and illness; emphasis on cultural systems approach to the study of illness and health care. Background in biology, medicine, or nursing helpful; instructor's permission required.

ANT 365 – CULTURAL ECOLOGY (5)
Systems of interaction between man and his environment; the role of social, cultural and psychological factors in the maintenance and disruption of ecosystems; interrelations of technological and environmental changes.

ANT 366 – MALE AND FEMALE: SEX ROLES AND SEXUALITY (5)
Crosscultural enthnographic data will be utilized to examine the enculturation of sex roles, attitudes and behavior; cultural definitions of maleness and femaleness; and varieties of human sexual awareness and response.

ANT 370 – THE INDIVIDUAL IN ANTHROPOLOGY (5)
Study of the individual in his sociocultural context, the place of the individual in anthropological theory, and the influence of culture on the individual through the use of biography, autobiography, journals, diaries, novels, and narratives.

ANT 385 – UTOPIAS AND INTENTIONAL COMMUNITIES (5)

A case study examination of historical and contemporary attempts to develop the "ideal" social setting for human interaction. The community study approach in anthropology will serve as the theoretical basis for this course.

ANT 400 – APPLIED ANTHROPOLOGY (5)

The theory and practice of applied anthropology; cultural factors and planned community change; implications of case data for public policy. Emphasis will be placed on the processes of economic development and culture change in developing nations.

ANT 401 – EDUCATION AND SOCIALIZATION (5)

A crosscultural examination of educational and socialization processes, their functions in the larger society, and the value systems they transmit.

ANT 403 – RACIAL AND CULTURAL MINORITIES (5)

The study of selected ethnic and cultural groups with particular emphasis on patterns of interethnic and intercultural relationships. Minority groups studied will include Afro-Americans, American Indians, Chicanos, Cubans, women, senior citizens or prisoners.

ANT 411 – THE RURAL POOR: MIGRANTS, SHARECROPPERS AND TENANT FARMERS (5)

The decline of the family farm and the rise of corporate agribusiness; the life styles of migrants, sharecroppers and tenant farmers; the farm labor movement and farmer cooperatives; government policy and the rural poor.

ANT 412 – CULTURE AND POVERTY (5)

Cultural patterns among the poor; current cultural models utilized in the study of poverty; and the impact of cultural models on anti-poverty programs and public policy.

ANT 415 – THE ORGANIZER (5)

A study of men who have inspired mass organizations and brought about major social and cultural transformations. The organizing styles of Christ, Gandhi, Hitler, Mao Tse-Tung, and Martin Luther King will be examined. The relationship between culture content and organizational symbols will be analyzed.

ANT 420 – CULTURES OF THE CARIBBEAN (5)

An ethnological survey of native cultures and of the processes of culture contact and conflict in the Caribbean and Circum-Caribbean region.

ANT 421 – LATIN AMERICA (5)

Native cultures of Mexico, Central and South America; the lowland

hunters and gatherers and the pre-Columbian Inca and Aztec Empires; the impact of the Spanish conquest.

ANT 422 – CUBAN CULTURE AND THE REVOLUTION (5)

Culture history of Indian, African and Spanish populations; the Revolution and traditional Cuban society; and the problems and prospects of the Cuban community in the United States.

ANT 423 – AFRO-AMERICAN ANTHROPOLOGY (5)

Interdisciplinary study of Afro-American cultures of the New World. Topics include cultural patterning, Black English, ethnomusicology, socio-economic adaptations, black culture and ghetto ethnography.

ANT 424 – THE AMERICAN SOUTH: A REGIONAL SUBCULTURE (5)

A course designed to provide an understanding of the Southern regional subculture. Discussion topics will include an analysis of the sociocultural characteristics attributed to this region.

ANT 425-426-427-428-429 – AREA STUDIES (5)

Ethnological survey of selected indigenous cultures. Areas to be studied include: (1) North America; (2) Africa; (3) Asia or Southeastern Asia; (4) China. Topics will be announced and will vary depending on current staff.

ANT 455 – SPECIAL TOPICS IN MEDICAL ANTHROPOLOGY (5)

Special courses dealing with advanced topics including (1) folk medicine and ethnoscience (2) nutritional anthropology (3) anthropology and nursing (4) medical anthropology and the elderly.

ANT 466 – STUDIES IN TRANSPERSONAL PHENOMENA (5)

The data on transpersonal phenomena such as psychic healing, trance induction, ESP, and expanded consciousness will be reviewed and related to the cultural settings in which they were collected.

ANT 467 – WITCHCRAFT (5)

Study of the theories, facts, and fantasies concerning witchcraft in western and non-western society from sociocultural, sociohistorical and socio-psychological perspectives.

ANT 475 – EXPLORATIONS IN VISUAL ANTHROPOLOGY (5)

An examination of the use of film in anthropology both as a method of ethnographic documentation and as a research technique for analyzing nonverbal modes of communication. Documentary films and crosscultural data on paralanguage, kinesics, proxemics and choreometrics will be reviewed and discussed.

ANT 485 – CULTURE SHOCK: THE YEAR 2000 (5)

An investigation of future patterns of culture; an analysis of the concepts of culture lag, culture change, culture shock and future

shock; review of conceptual models for projecting the shape of post-industrial society and the relationship of man to his environment in the year 2000.

ANT 486 – ANTHROPOLOGY OF WAR AND VIOLENCE (5)

ANT 501 – COMMUNITY ACTION RESEARCH SEMINAR (5)

Seminar will focus on the application of social science data gathering techniques to the analysis and resolution of community issues such as urban planning, environmental quality, and corporate/consumer accountability. Open to majors only. ASC 303 or permission of the instructor required.

ANT 511-512-513-514-515 – TOPICS IN ANTHROPOLOGY (5)

Special courses dealing with advanced topics in the major anthropological subdisciplines: (1) social and cultural anthropology; (2) applied anthropology; (3) physical anthropology; (4) linguistics; and (5) archeology. Instruction by staff or visiting specialists. Topics to be announced. Instructor's permission required. May be repeated.

ANT 522 – ANTHROPOLOGY FOR EDUCATORS (5)

A course designed to provide educators, particularly at the secondary level, with an overview of anthropology as a discipline; its role in a social science curriculum; methods for designing and teaching anthropology courses; and sources of bibliographic and audio-visual aids.

ANT 555 – CULTURAL FACTORS IN HEALTH CARE DELIVERY (5)

Topics studied include the varieties of subcultural perceptions of and responses to illness; formal and informal healing systems; the indigent patient; and the design of health care delivery services in a multicultural area. Prerequisite: Medical Anthropology course or permission of the instructor required.

ANT 556 – HALLUCINOGENS AND CULTURE (5)

A crosscultural examination of the political, religious, and socio-cultural factors related to the use of hallucinogens. Case materials from tribal and contemporary societies will be analyzed, including the study of soma, the divine mushroom of immortality of the Hindu Rig-Veda; the Native American Indian peyote cult; shamanism and healing in Latin America; the teachings of Don Juan, a Yaqui sorcerer; and the therapeutic uses of LSD.

This course does not focus primarily on drug abuse and rehabilitation although these topics are mentioned within the comparative context of the ethnographic data.

ANT 561 – PRACTICUM (5)

Permission of the instructor required.

ANT 565 – HUMAN BIOLOGY AND CULTURAL BEHAVIOR (5)
The study of animal social behavior and the relevance of these ethological studies for the analysis of human development and socio-cultural behavior.

ANT 591 – DIRECTED INDIVIDUAL STUDY (Variable) **(F,W,S,SS)**
Supervised readings and/or field research and training. May be repeated.

ANT 592 – DIRECTED FIELD RESEARCH (Variable) **(F,W,S,SS)**
Permission of Instructor required.

ECONOMICS MAJORS

The major in economics is designed to provide the student the critical and analytical skills required for understanding economic problems and institutions. Both the development of tools of economic analysis and their application to contemporary problems are stressed. The program provides valuable preparation for careers in industry, government, international agencies, and teaching. It is recommended for students planning professional or graduate studies in economics, business, law, public administration, urban studies, or international relations.

The student may choose a program in general economics or concentrate in one of the following fields: urban and environmental economics, labor and manpower studies, international economics and development, or monetary and fiscal policy. All programs are designed to permit the student to develop specialties in other disciplines through the selection of electives in consultation with a faculty advisor.

LOWER DIVISION PREPARATION:

Required Courses: None

Recommended Courses:

Principles of Economics	6 semester hours
Social Science	3 semester hours
Humanities	6-9 semester hours
College Algebra, Trigonometry	6 semester hours
Statistics	3 semester hours

Remarks: Students who do not take Principles of Economics at the lower division level will be required to take Economics 301 during their first quarter at Florida International.

UPPER DIVISION PROGRAM:

Required Courses:

Economics	35-50 quarter hours
Mathematics	5 quarter hours
Electives	40-50 quarter hours

Remarks: It is recommended that students who anticipate post-graduate work in Economics complete 10-quarter hours of specified method courses.

Interested students are encouraged to allocate elective hours to foreign language study.

ECONOMICS

ECO 301 – ECONOMICS, MAN AND SOCIETY (5) (F,W,S,SS)
Relationship of economics to individual and group action. Identification of economic and non-economic objectives and problems. Analysis of economic behavior of individuals, business firms, public agencies, and interest groups. Public issue interpretation in the light of economic theory.

ECO 304 – MANAGERIAL ECONOMICS (5)
Survey of work assignments expected from businessmen, and decision-makers in industry, government, and related institutions; stress is laid upon practical case applications of economic analysis in solving business, labor, and government problems.

ECO 305 – CONSUMER ECONOMICS (5)
Consumer behavior; advertising and other influences affecting demand. Patterns of consumer expenditure, effects of public policy on family incomes and consumption patterns. The consumer protection movement.

ECO 306 – MONEY AND BANKING (5)
Elements of monetary theory; relationships between money, prices, production and employment; factors determining money supply; history and principles of banking with special references to the United States.

ECO 307 – THEORY OF PRICE (5) (F,S)
Operation of individual markets; market structure; theory of the firm; theory of production; demand theory; general equilibrium and welfare economics.

ECO 308 – AGGREGATE ECONOMIC ANALYSIS (5) (W,SS)
Analysis of the measurement, determination, and control of

aggregate economic activity; the monetary system in relation to income and employment short-term income fluctuations; long-term growth.

ECO 310 – ECONOMICS OF THE BUSINESS ENVIRONMENT (5) (F,W,S,SS)
Core course for undergraduate business program. Review and extension of micro and macroeconomic analysis; market system and firm behavior; economic issues; public and private decision making; aggregate theory and policy; problems of the international economy.

ECO 312 – DEVELOPMENT OF ECONOMIC THOUGHT (5) (W,S)
Evolution of economic theory and doctrine. Contributions to economic thought from ancient times to J. M. Keynes; emphasis on institutional forces shaping the continuum of economic thinking.

ECO 313 – COMPARATIVE ECONOMIC SYSTEMS (5) (F,S)
Analysis of alternative economic systems of the industrialized and emerging nations; emphasis on the comparative study of the capitalist, socialist, and communist economic systems of the modern world.

ECO 316 – ECONOMICS OF CENTRAL AMERICA (5) (W)
Survey of recent economic history of Central American countries dealing with the institutional background and the structure of current economic activities. Special attention devoted to current problems of economic growth and social transformation.

ECO 319 – INTRODUCTION TO ENVIRONMENTAL ECONOMICS (5) (W)
Economic principles applied to environmental problems. Relationship of market and nonmarket forces to environmental quality; development of tools for policy analysis.

ECO 320 – INTRODUCTION TO URBAN ECONOMICS (5)
Study of the urban environment, characteristics and trends. Location behavior of firms and households. Urban financial problems, transportation, and housing.

ECO 321 – REGIONAL ECONOMICS (5)
The spatial order of the economy. Systems of cities, industrial location patterns, regional land use, interregional income and trade, regional economic expansion, population and migration.

ECO 328 – ECONOMICS OF POVERTY (5)
Poverty in the United States: its measurement and history. Theory of personal income distribution. Present and proposed policies to alleviate poverty.

ECO 329 – ECONOMICS OF RACE AND SEX DISCRIMINATION (5) (S)
Economic and non-economic implications of discrimination on the

basis of race and sex. Discrimination in the labor and commodity markets. Problems of educational training, unemployment, and personal income distribution.

ECO 403 – THE ECONOMIC DEVELOPMENT OF CUBA – PAST AND PRESENT (5) (S)
Survey of the Cuban economy under capitalist and Marxist ideologies; emphasis on the transition stage and on current policies of economic and social change.

ECO 409 – ECONOMICS OF THE CARIBBEAN (5) (W)
Survey of the economic systems of the major British, French, Dutch and Spanish areas in the Caribbean. Special attention devoted to current problems of economic growth and social transformation.

ECO 410 – INTRODUCTION TO ECONOMIC DEVELOPMENT (5)
Analysis of institutional and structural factors which determine the course of economic progress in developing countries. Characteristics of less developed areas: agriculture, investment, technology, population, international trade, economic integration.

ECO 412 – RADICAL POLITICAL ECONOMY (5)
The relationship between Marxist and orthodox economists. Attention given to the New Left and other current criticisms of capitalist economies; multinational corporate policy, concentration of economic power, income distribution, and Third World development.

ECO 415 – EUROPEAN ECONOMIC HISTORY (5)
The development of Mediterranean and Western European economies from the earliest times to the 20th Century. Attention is centered on capital accumulation, technology, trade, industrialization, monetary factors, and the role of government in economic organization.

ECO 416 – ECONOMIC DEVELOPMENT OF THE UNITED STATES (5)
The growth of the American economy from colonial times to the present; special emphasis on the market forces, institutional arrangements, and policies contributing to this process.

ECO 421 – LAND AND RESOURCE ECONOMICS (5)
Availability, use, and control of land and other natural resources. Resource conservation, investment, and taxation. Environmental implications. Resource markets and pricing.

ECO 426 – ISSUES IN MONEY AND BANKING (5) (S)
Application of monetary theory to current issues and to monetary policy.

ECO 429 – MANPOWER PROBLEMS AND PROGRAMS (5) (W)
Problems of human resource development, examination of programs for training and upgrading of workers; barriers to skill development and job entry; formulation of public policies on human resources.

ECO 431 – INTRODUCTION TO ECONOMETRICS (5) (W)
Introduction to measurement in economics; numerical evaluation of mathematical models by statistical methods; survey of classical models; scope and method of econometric analysis. (Recommended preparation: ECO 307 or 308.)

ECO 436 – MONEY AND NATIONAL INCOME DETERMINATION (5) (W)
The basic model of income determination is built emphasizing the roles of real and monetary sectors of the economy. Results of empirical work are surveyed.

ECO 444 – PROSPERITY, DEPRESSION AND INFLATION (5)
Historical analysis of the Great Depression, business cycles, inflation, and prosperity. Emphasis on the theories of economic cycles and inflation.

ECO 454 – THE LATIN AMERICAN ECONOMIES (5)
Survey of economic status and problems of Latin American nations; analysis of economic and social forces at work in Latin American development.

ECO 455 – LAS ECONOMIAS LATINOAMERICANAS (5) (W,SS)
Aspectos del desarrollo economico de los paises latinoamericanos; enfoque en las fuerzas sociales, institucionales, y del mercado y sus efectos sobre los paises en vias de desarrollo.

ECO 460-463 – UNDERGRADUATE TUTORIAL (Variable)
Supervised readings, individual tutorial, and preparation of reports. Requires consent of faculty supervisor and department chairman.

ECO 467 – SEMINAR ON CURRENT ECONOMIC TOPICS (5) (W,S)
Faculty and student discussion of contemporary economic and social issues.

ECO 507 – MONETARY THEORY AND POLICY (5) (W)
Relationship of money supply and interest rate to economic stabilization; consideration of federal reserve system, money market, and factors determining money supply and demand; neo-Keynesian, Chicago, and radical policy views.

ECO 509 – THEORIES OF ECONOMIC PROGRESS (5) (F)
Dynamics of economic progress and change in industrialized and underindustrialized countries of the modern world; historical theories of growth; empirical case studies; formulation of

development projects and programs. (Recommended preparation: ECO 307 or 308.)

ECO 510 – ECONOMIC PROBLEMS OF EMERGING NATIONS (5) (W,SS)
Specific economic problems of emerging nations and national groupings; basic approaches to economic development; major proposals for accelerating development; role of planning; trade, aid and economic integration. (Recommended preparation: ECO 307 or 308.)

ECO 511 – ECONOMIC PLANNING (5)
Analysis of planning methods in Capitalist and Socialist economies. Evaluation of macro and micro economic planning tools (input-output and programming techniques). Theory and practice of economic development planning of agriculture, industrialization, foreign trade and manpower.

ECO 517 – ECONOMICS OF TRANSPORTATION (5)
Economic analysis applied to specific problems of transport. Effects of location and transportation cost on firm behavior; public regulation and policy; capacity, rate structure, service areas; problems of urban mass transportation. (Recommended preparation: ECO 310 or 307.)

ECO 518 – MEDICAL AND HEALTH ECONOMICS (5)
Economic analysis of medical and health services. Physician and dentist pricing; hospital supply; markets in health-related professions; drug and equipment markets; medical and health insurance; national priorities and policy for health service delivery. (Recommended preparation: ECO 310 or 307.)

ECO 520 – URBAN AND REGIONAL ECONOMICS (5)
Application of economic analysis to urban growth and the urban-regional environment; consideration of public services, transportation, ghetto problems, and urban organization; analysis of environmental protection problems and policies. (Recommended preparation: ECO 307, 308 or 319.)

ECO 525 – PUBLIC CHOICE AND THE PUBLIC FINANCES (5) (W)
Analysis of administrative and legislative decisions applicable to public goods and services; government expenditure policy; sources of revenue; public credit; fiscal policy, principles and methods of taxation and financial administration. (Recommended preparation: ECO 310 or 307.)

ECO 526 – THE INTERNATIONAL ECONOMY (5) (W,SS)
Principles of international trade; significance of geographic, economic, social and political influences; current problems in international trade and payments; tariffs and commercial policy; role

of international organizations. (Recommended preparation: ECO 310 or 308.)

ECO 527 – INTERNATIONAL MONETARY RELATIONS (5)
International money and capital markets, international financial institutions. Interpretation of balance of payments statements. Adjustments to disequilibria through changes in prices, exchange rates, and national income.

ECO 528 – LABOR ECONOMICS (5) (S)
Economic problems and issues of trade union organization and wage theory; job security, hours, working conditions, labor legislation, unemployment, and discrimination. (Recommended preparation, ECO 310 or 307.)

ECO 529 – ECONOMICS OF TECHNOLOGICAL CHANGE (5)
Economic analysis of technological possibilities in the production process and the estimation of production and cost functions. Case studies of research and development (R&D) and technical innovation. Management of science and technology; transfer and adaptation of intermediate and advanced technologies to emerging nations.

ECO 530 – INTRODUCTION TO MATHEMATICAL ECONOMICS (5) (S)
Mathematical formulation of economic theory. Mathematical treatment of maximizing and optimizing behavior; applications to consumer and business firm theory, value, economic strategies, growth and stability. Emphasis on understanding of analytical techniques. (Recommended preparation, ECO 307 or 308.)

ECO 531 – ECONOMETRIC METHODS (5)
Application of statistical methods to the estimation of simultaneous equation systems. Special topics including dynamic models, errors in variables, random coefficient regression. (Prerequisite: MAS 321/322. Recommended preparation, ECO 431.)

ECO 537 – ECONOMIC POLICY FOR INDUSTRY (5)
Governmental activities affecting business, government regulation of business and its historical, legal, and economic perspectives, including recent developments in the United States and abroad; governmental assistance to business; proposed policies. (Recommended preparation ECO 310 or 307).

ECO 560-563 – ADVANCED INDIVIDUAL STUDY (Variable)
Supervised readings, individual tutorial, and preparation of report. Requires consent of faculty supervisor and department chairman. Open to seniors and graduate students.

ECO 565 – ADVANCED SEMINAR IN ECONOMIC THEORY (5) (F,W,S,SS)
Variable-topic study group in theoretical problems. Open to seniors and graduate students.

ECO 566 – ADVANCED SEMINAR IN APPLIED ECONOMICS (5) (F,W,S,SS)
Variable-topic study group in application of economic analysis to specific problems. Open to seniors and graduate students.

ECO/MBA 606 – MANAGERIAL ECONOMICS I (5) (F,W,S,SS)
Basic microeconomic concepts as they apply to decision making within the organization; supply and demand; market structure and market behavior in specific industries; basic aggregate economic models and forecasting.

ECO 626 – MONEY AND MONETARY POLICY (5) (W)
Monetary theory and its application; consideration of central banking in the U.S. and its relation to the international economy, money markets, and financial intermediaries; survey of current policy views.

ECO/MBA 656 – MANAGERIAL ECONOMICS II (5) (W)
Extension of topics covered in ECO/MBA 606. Includes capital budgeting, linear programming, pricing, decision making under uncertainty, recent developments in theory of the firm. (Prerequisite: ECO/MBA 606.)

ECO 660 – INDIVIDUAL GRADUATE STUDY (5-10) (F,W,S,SS)
Supervised readings, tutorial, and preparation of report. Open only to graduate students. Requires consent of supervisor and approval of department chairman.

ECO 665 – GRADUATE SEMINAR IN ECONOMIC THEORY (5) (F,W,S,SS)
Variable-topic graduate study group in theoretical problems. Open only to students with graduate standing.

ECO 666 – GRADUATE SEMINAR IN APPLIED ECONOMICS (5) (F,W,S,SS)
Variable-topic study group in application of economic analysis to specific problems. Open to students with graduate standing.

POLITICAL SCIENCE MAJORS

LOWER DIVISION PREPARATION:

Recommended Courses:

American Government

International Relations

Ecology
Economics
Foreign Language
History
Introduction to Statistics
Psychology
Sociology/Anthropology
State and Local Government

UPPER DIVISION PROGRAM:

Fifty (50) credit hours are required in Political Science, distributed as follows:

A. Breadth Requirement (25 credit hours) — one 5 credit-hour course in each of the following:
   Comparative Politics (CP)
   International Politics (IP)
   Political Theory (PT)
   Public Law (PL)
   Public Policy and Administration (PP)

B. Depth Requirement (25 credit hours) — 5 courses from any one of the following:
   International and Comparative Politics
   Political Theory and Analysis
   Public Policy, Law, and Administration

C. Electives: 40 Quarter hours.

D. Minor in Political Science: 25 Quarter Hours.

E. One course designated Politics and Arts (AP) may be substituted for one course in the Depth Requirement.

PRE-LAW STUDENTS — The Department of Political Science recognizes the interests and needs of political science majors who are going to law school. The basic skills important to a pre-law student include: (1) how to think logically, (2) how to read intelligently, and (3) how to express oneself clearly. These skills are developed in any discipline or field. Beyond these basic skills, the Department encourages students to acquire a broad background in political science rather than to select only courses which deal with public law. Thus the requirements for the major allow the pre-law student to develop a wide comprehension of five major areas within political science and then to achieve greater depth of understanding in one broad area. For most pre-law students, that area may be public law, policy, and administration. The Department will counsel students on pre-law school concerns and preparation as an integral part of its overall advising program. In addition, special opportunities will be available to students who are interested in participating in judicial internships.

PUBLIC AFFAIRS INTERNSHIP — The Department provides students at several different levels with opportunities for work-study experiences in governmental and nongovernmental agencies. There are six categories of internships available to students: (1) judicial internships, (2) administrative

internships, (3) legislative internships, (4) political internships, (5) international internships, and (6) street-level internships. A student may apply up to 10 quarter hours of internship to the major and take as many electives in internship as is desirable with permission of the Department. For further information about the Public Affairs Program, the interested student should contact the Chairman of the Department.

EVALUATION OF STUDENT RECORDS AND TRANSCRIPTS — As a general rule, students will receive transfer credits for junior and senior level courses in political science with a grade of C or better. These courses may then be applied to the 50 credit hour requirement for majors in political science.

SENIOR HONORS PROGRAM — For a select number of exceptional seniors. This program will approximate some of the advantages of the seminar and tutorial system in the context of a large urban university.

POLITICS AND THE ARTS — A series of courses devoted to exploring the relationships between politics, literature, drama, film, architecture, and popular culture.

POLITICAL SCIENCE

POS 301 — FOUNDATIONS OF POLITICAL SCIENCE (5)
Introduces the student to the major fields of political science. Attention is given to the concepts, definitions, and terminology used in the discipline. Intended for the non-major. Elective credit only for political science majors. (5)

POS 302 — METHODS OF POLITICAL ANALYSIS (5)
Introduction to methods of collecting, analyzing and evaluating information to answer questions about politics. Includes formulation of research problems, ways to collect and summarize information, measures of relationship and of risk, and interpretation of research findings. Strongly recommended for students planning graduate study. (PT)

POS 303 — THEORY AND ANALYSIS OF PUBLIC POLICY (5)
An intensive examination of the theory and practice of formulating, legitimizing, administering, and evaluating public policy. Includes a discussion of the role of administrators, legislators, courts, interest groups and political parties in these processes. Gives the student an analytical basis for understanding and participating in the making of public policy in a variety of policy areas. (PP)

POS 304 — GOVERNMENT AND POLITICS OF SOUTH AMERICA (5)
A cross-national discussion of the political systems and cultures of the Latin American nations, with special emphasis on the larger

countries. Attention is given to the role of the military and to the problem of violence in the area. Designed to give the student an overview of the political life of the nations with whom we share this hemisphere. (CP)

POS 305 – FOREIGN POLICY FORMATION (5)
An analysis of how foreign policy decisions are made, including the inputs deriving from societal and cultural characteristics. Attention is given to the decision making process in a number of countries. Gives the student insights into decisions which may affect his life. (IP)

POS 306 – DYNAMICS OF INTERNATIONAL POLITICS (5)
An examination of the nation-state system. Attention is given to the use of force in international affairs, as well as those organizations, such as the United Nations, which have an international dimension. The course should aid the student in understanding the complexities of world politics. (IP)

POS 307 – GOVERNMENT AND POLITICS OF THE CARIBBEAN (5)
Studies the political system of the major British, French, Dutch, and Spanish areas in the Caribbean basin. Although attention is focused on such factors as political party systems, forms of government, and regional politics, emphasis is placed on the developmental problems confronted by small democracies in a nonindustrial setting. Discusses the paradoxes between modernity and tradition throughout the developing Caribbean and the relationship between politics, economics, and culture. Helps the student to understand the dynamics of change in an important area of the world and to compare those dynamics with change in his own country. (CP)

POS 308 – GOVERNMENT AND POLITICS OF CHINA (5)
An intensive examination of the major political institutions of mainland China. A critical analysis of changing aspects of traditional relationships in Chinese political culture and major reform movements in contemporary Chinese politics. Allows the student to better understand a nation whose political development will be an important factor in global development. (CP)

POS 309 – GOVERNMENT AND POLITICS OF THE MIDDLE EAST (5)
An examination of the political systems of the Middle East. Special attention is given to the military as a political force in the area, and on the role of political ideology. (CP)

POS 311 – ANCIENT AND MEDIEVAL POLITICAL THEORY (5)
A study of the major political philosophers of the Ancient and Medieval periods. Primary emphasis will be given to the Greek experience. The nature of political theory as a tradition of discourse will be examined. (PT)

POS 313 – GOVERNMENT AND POLITICS OF THE SOVIET UNION AND EASTERN EUROPE (5)

An intensive examination of the political structures and institutions of the Soviet Union and East European Communist states. Particular attention will be paid to the historical and cultural underpinnings of the Soviet regime. The role of Marxist-Leninist ideology in shaping policy processes and content will be given careful analysis. (CP)

POS 314 – POLITICS OF PUBLIC BUREAUCRACY (5)

An introduction to the political environment of administrative decision making in public agencies. Special emphasis is placed upon the politics of budgeting, personnel management, organizational requirements, and policy making. (PP)

POS 316 – GOVERNMENT AND POLITICS OF CENTRAL AMERICA (5)

Examines the political systems of the countries of Central America. Special attention is given to the problem of political restraints on the modernization process and to those regional arrangements which have been created to solve the area's problems. The student should develop a better understanding of a region which has close ties to the United States. (CP)

POS 317 – THEORY AND METHODOLOGY OF INTERNATIONAL POLITICS (5)

An intensive examination of the varied approaches to the consideration of international relations. Gives the student an analytical basis for the understanding of relations among states. (IP, PT)

POS 321 – THE LEGISLATIVE PROCESS (5)

Examines the context and process of legislative decision-making, including the impact of elections, groups, bureaucracies and the norms of legislative behavior on legislative decisions. Evaluates legislatures in light of various theories of representation and conflict-management. (PP, PL)

POS 322 – MODERN POLITICAL THEORY (5)

An analysis of the political thought of the great political thinkers since Machiavelli, culminating with the Nineteenth Century theorists. Basic themes and ideas common to all these political theorists will be discussed in detail. The problem of "modernity" will receive special attention. (PT)

POS 323 – URBAN POLITICS (5)

An examination of the processes by which social conflicts in American urban areas are represented and regulated. Emphasis is placed on how urban problems are identified and proposed solutions are formulated, legitimized, and adminstered by urban policy

making processes. Includes a discussion of urban political culture. Enables the student to understand the major problems confronting communities in urban areas. (PP)

POS 326 – THEORIES OF LATIN AMERICAN POLITICS (5)
Studies the dynamics of Latin American politics with an emphasis on the role of the military, and the church. Also considers alternative strategies for modernizing the region. (IP,PT)

POS 327 – TRADITIONAL ASIAN POLITICAL PHILOSOPHY (5)
Examines the major political philosophies of the ancient and medieval periods in East Asia. Special emphasis is given to the Chinese experience. The nature of political philosophy as a tradition of discourse will be examined in an East Asian setting. (PT)

POS 328 – MODERN ASIAN POLITICAL PHILOSOPHY (5)
A study of the major political philosophies of the modern period. Primary emphasis is given to the impact of "modernization" upon the tradition of political discourse in Asia. The "modernization" experiences of Japan and China are discussed in detail. (PT)

POS 331 – THE JUDICIAL PROCESS (5)
An introduction to the study of public law. Examines the relationship between politics and judicial structure and process. Emphasizes the judicial system as a particular kind of policy-making system and evaluates its strengths and weaknesses from a policy-making perspective. (PL,PP)

POS 333 – CONTEMPORARY POLITICAL THEORY (5)
An overview of the major conceptual frameworks used by political theorists to describe, to explain, and to evaluate political behavior and processes. Stress is placed upon political theory not only as a basis for inquiry but also as a base for political action. Will enable the student to develop analytical abilities with which he can interpret the political events of his time. (PT)

POS 338 – RACE AND POLITICS IN THE CARIBBEAN (5)
A discussion of the entry of different ethnic and cultural groups in the Caribbean area and an examination of their impact, by the application of specific concepts, upon the political processes and political development in certain states. (CP)

POS 339 – INTERNATIONAL LAW (5)
The law of nations, including the laws of war. Includes a discussion of the development of legal norms applicable to the international arena from both Western and nonWestern perspectives. Examines the emerging body of transnational law in social, economic, and technological areas of international relations. Enables the student to

appreciate the problems involved in structuring conflict in international relations. (IP, PL)

POS 341 – POLITICAL PARTIES (5)

Studies the internal structure, political functions, and behavior of modern political parties. Attention is given to the relationships between political parties and various economic, military, ethnic, and regional interests. Enables the student to understand the problems of expressing and structuring political demands to facilitate or obstruct governmental decision making. (PP)

POS 343 – CONSTITUTIONAL LAW: POWERS (5)

An examination of the basic principles of American government as defined through constitutional law. Focus will be upon the nature of the union, federalism, national government powers, separation of powers, state government powers, and the powers of the respective branches of government. (PL)

POS 344 – CONSTITUTIONAL LAW: LIMITATIONS (5)

An examination of the limitations upon government as defined by the Supreme Court through constitutional law. Focus will be on the limitations of government with respect to the rights of the individual, of groups, and of the states. Particular attention will be paid to civil rights, civil liberties, the rights of the accused, political rights, and economic liberties. (PL)

POS 348 – INTERNATIONAL ORGANIZATION (5)

An analysis of the factors and problems involved in administering change on a transnational basis. Stress is placed on the difficulty of applying legal norms to the international arena. Attention is given to those organizations, especially the United Nations, which are entrusted with implementing international agreements. Enables the student to understand the difficulties involved in maintaining world peace. (IP)

POS 349 – GOVERNMENT AND POLITICS OF ISRAEL (5)

Studies the major political groupings and variables in Israel. Includes a section on Israeli foreign policy. (CP)

POS 401 – POLITICAL COMMUNICATION AND PUBLIC OPINION (5)

The way in which political beliefs, attitudes, and roles are learned from childhood through life. Discusses the impact of widely held feelings on the policy-making process and the relationship of such concepts as "image" on public opinion. Aids the student in understanding his own political beliefs. (PP)

POS 402 – SIMULATION LABORATORY (Variable)

Playing and modifying political games and simulations within an

experimental laboratory situation. Students will attempt to design scenarios for specific political and administrative situations. (VAR)

POS 403 – CUBAN POLITICS (5)
Examines the course of Twentieth Century Cuban politics. It is subdivided into five parts, involving the three periods of relatively stable politics and the two major revolutions which took place. (CP)

POS 404 – POLITICS OF THE THIRD WORLD (5)
A consideration of the problems and factors which both retard and generate political life in developing countries. Includes a discussion of the role of ideology in these nations. Enables the student to appreciate the difficulties of applying Western political norms and values to non-Western cultures. (CP)

POS 405 – GOVERNMENT AND POLITICS OF WESTERN EUROPE (5)
Studies the political systems of the major European countries on a comparative basis. Attention is focused on such factors as political party systems, the cabinet form of government, and the politics of the Common Market. Considers the implications of the impact of mass society on these nations. Enables the student to better understand the nations which have supplied many of the theoretical foundations of modern politics. (CP)

POS 407 – INDEPENDENT STUDY (Variable)
By arangement with the instructor. (VAR)

POS 408 – ALTERNATIVE POLITICAL FUTURES (5)
Explores the political dimensions of the future. Examines alternative political systems and institutions from the perspective of political ideas. Special attention will be given to assessing and extrapolating current political trends into the future. (PP, PT)

POS 409 – TOPICS IN CARIBBEAN POLITICS (5)
An intensive examination of selected topics dealing with the Caribbean area. The subjects will vary, depending upon the desires of both students and faculty. (CP)

POS 411 – THE PRESIDENCY (5)
An examination of the various interpretations of the Presidency. Attention is directed to the role of the President in a technocratic society. Enables the student to understand one of the most visible political institutions. (PP)

POS 413 – AMERICAN FOREIGN POLICY (5)
An examination of the legal, administrative, and political structure by which American foreign policies are formulated and implemented. Includes a discussion of the objectives and consequences of United States foreign policy in selected regional, social-economic,

and ideological areas. Enables the student to understand the procedures by which foreign policy is made and implemented in the United States. (IP, PP)

POS 417 – ISSUES IN THE ADMINISTRATION OF PUBLIC POLICY (5)
An analysis of the policy consequences of major issues facing political executives and adminstrators, including planning for the year 2000, bringing government closer to the people, the pathologies of bureaucratization, technology assessment, quantification aids in decision making, needs for policy advice, and experiments in organizational forms. (PP)

POS 421 – GOVERNMENT AND POLITICS OF THE UNITED STATES (5)
An examination of the origin and development, structure and operation of the government of the United States, with an emphasis on the characteristics and political consequences of federalism. Allows the student to have a better understanding of the political system in which he lives. (PP)

POS 422 – MODERN POLITICAL THEORY II
An analysis of the political thought of the great political thinkers of the late Eighteenth, Nineteenth, and early Twentieth Centuries. Primary emphasis will be given to the important Nineteenth Century Theorists such as J. S. Mill, Marx, and de Tocqueville. Their theoretical treatment of such modern political phenomena as the masses, bureaucracy, democracy, liberty, and violence will be extensively analyzed. (PT)

POS 423 – TOPICS IN URBAN POLITICS AND POLICY (5)
An examination of the processes by which social conflicts in American urban areas are represented and regulated. Emphasis is placed on how urban problems are identified and proposed solutions are formulated, legitimized, and administered by urban policy making processes. Includes a discussion of urban political culture. Enables the student to understand the major problems confronting communities in urban areas. (PP)

POS 424 – SOVIET FOREIGN POLICY (5)
An analysis of the basic characteristics of Soviet foreign policy. The role of history and Marxist-Leninist ideology in the shaping of Post-World War Two Soviet foreign policy will be analyzed. (IP, PP)

POS 426 – LATIN AMERICAN POLITICAL THOUGHT (5)
An examination of Latin American political thought from its 15th century origins to the present period. Emphasis will be given to the political impact in respective Latin American nation-states. (PT)

POS 427 – AMERICAN POLITICAL THOUGHT (5)
An examination of American political thought from its 17th

Century origins to the contemporary period. The continuities and discontinuities in the development of American political ideas since colonial times will receive special attention. (PT)

POS 429 – CONFLICT AND COOPERATION IN THE CARIBBEAN (5)

An analysis of the institutions and processes promoting and inhibiting regional cooperation in the Caribbean area. Designed to enable the student to appreciate the trend toward regionalism and the problems of interstate relations in this microcosm of the world. (CP, IP)

POS 431 – POLITICAL VIOLENCE AND REVOLUTION (5)

An examination of political violence and revolution in coping with and solving political problems. Includes a comparative discussion of the role of violence and revolution in other countries. Enables the student more clearly to understand the manifestations of political violence and revolution in the political events of his own time. (PT)

POS 432 – GOVERNMENT AND POLITICS OF FLORIDA (5)

An examination of the structure and function of state government in Florida, including a survey of the political and social institutions which have developed in Florida. Emphasizes Florida political culture, group development and activity, power structures, and reform movements. The characteristics of Florida's political problems and proposed solutions are evaluated. (PP)

POS 437 – POLITICAL AND SOCIAL CHANGE IN LATIN AMERICA (5)

The major internal and external factors making for change in Latin America, such as industrialization, land reform, bureaucratic professionalism, and education. The role of the United States as a change agent in the area receives special attention. Enables the student to understand the dynamics of change in this important area and to compare these processes with events in his own country. (CP)

POS 439 – ENVIRONMENTAL POLITICS AND POLICY (5)

A systematic examination of environmental policy making which emphasizes the various steps involved in transforming private preferences into authoritative public policies. Special attention is directed at the unique political problems posed by pollution, preservation of natural areas, natural resource management, population dynamics, and ecological imperatives. Designed to enable the student, particularly the environmental studies student, to understand the overlapping policy matrices which constrain environmental action. Should enable student to identify critical decision points in the environmental policy-making process. (PP)

POS 441 – POLITICS OF AUTHORITARIANISM (5)

The course is designed to analyze the circumstances giving rise to

non-totalitarian modern dictatorships, their political dynamics and their survival capability. (CP)

POS 442 – JUDICIAL BEHAVIOR (5)

An examination of the various approaches, theories, and findings on how judicial actors behave, particularly as it relates to judicial decision-making. The focus of the course will be on judges, lawyers, prosecutors, and other relevant actors in the judicial process. (PL)

POS 444 – POLITICAL IDEOLOGIES (5)

An analysis of modern political ideologies since the French Revolution, including liberalism, conservatism, and socialism. Particular emphasis will be given to Marxism. The contemporary link between ideology and totalitarianism will be examined. (PT)

POS 448 – GOVERNMENT AND POLITICS OF MEXICO (5)

An intensive examination of one of the most important Latin American nations. Attention is given to the political impact of the Mexican revolution and to the behavior of the dominant political party. Includes a section on Mexican history and culture. Allows the student to study life in a single, unique political system and thus to better understand his own. (CP)

POS 449 – INTERNATIONAL POLITICS OF THE CARIBBEAN (5)

A discussion of the role of Caribbean states in world affairs with particular emphasis upon their participation in the U.N., the O.A.S. and bloc politics. The interactions of Cuba in the international system will also be analyzed. (IP)

POS 452 – INTEREST GROUP POLITICS (5)

An examination of the various types of voluntary associations which seek to influence the political process. Special attention is given to the role of private power in a pluralist system. Enables the student to understand the ambivalent American attitude towards pressure groups and lobbying activities in the legislative and administrative arenas. (PP)

POS 453 – INTERNATIONAL CONFLICT AND MODES OF SOLUTION (5)

An examination of the way in which international crises are developed, including a consideration of their historical, geographical, economic, ideological, and strategic bases. Emphasis is placed on strategies and modes of resolving national conflicts. Enables the student to understand the dynamics of conflict on an international basis. (PT, IP)

POS 455 – POLITICS AND THE ARTS (5)

Employs the arts as a tool of analysis for political science. Includes literature, painting, music, and film. Special attention is given to the relationship between popular culture and political system. (PT)

POS 459 – THE INTERNATIONAL POLITICS OF THE MIDDLE EAST (5)

A general examination of the complex relationships between this vital part of the world and the major powers. Special attention is given to the Arab-Israeli dispute. (IP)

POS 461 – TOPICS IN POLITICS (Variable)

Subject matter varies according to instructor. (VAR)

POS 462 – COMPARATIVE JUDICIAL POLITICS (5)

An examination of the various modes of dispute settlement and rule adjudication cross-culturally. Emphasis will be upon the similarities and differences of judicial behavior, judicial decision-making, judicial recruitment, and judicial powers in cross-national analysis. (PL, CP)

POS 463 – ETHNIC POLITICS (5)

An examination of the influence of major ethnic groups on American politics. Special attention will be given to black, Cuban-American and Puerto Rican interest groups. (PP)

POS 464 – LATIN AMERICAN INTERNATIONAL POLITICS (5)

Studies both Latin America's relations with other areas of the world as well as relationships between the various nations of that continent. Emphasis is given to the historical development of the United States-Latin American relations on the political, economic, and cultural levels. The student should develop an understanding of how his country has affected Latin America and how the Latin Americans view his society. (IP)

POS 469 – POLITICAL FOUNDATIONS OF INTERNATIONAL LAW (5)

An examination of the interaction between politics and international law with particular emphasis upon such interaction during the present century. The role of international institutions in the modifying of existing international law concepts and the developing of such concepts is also examined. (IP, PL)

POS 471-472-473-474 (PUBLIC AFFAIRS INTERNSHIPS) (Variable)

An opportunity for the student to participate in a selected policy area within one of the communities of South Florida. The nature of the work to be accomplished in connection with the internship will be worked out between student and advisor:

POS 471 – LEGISLATIVE INTERNSHIP
POS 472 – JUDICIAL INTERNSHIP
POS 473 – ADMINISTRATIVE INTERNSHIP
POS 474 – INTERNATIONAL INTERNSHIP

POS 475 – SOVIET-LATIN AMERICAN POLITICS (5)

Examines Soviet activities and interests in Latin America. Emphasis is placed upon the importance of the Soviet Union as a model for Latin America and upon Cuban-Soviet relations. (IP)

POS 512 – TOPICS IN POLITICAL PROCESSES AND BEHAVIOR (Variable)

An intensive examination of selected topics dealing with the political process. The subjects will vary, depending upon the desires of both students and faculty. Allows the student to choose topics of particular interest to him. (VAR)

POS 513 – TOPICS IN POLITICAL ANALYSIS AND METHODOLOGY (Variable)

An intensive examination of selected topics dealing with political analysis and methodology. The subjects will vary, depending upon the desires of both students and faculty. Allows the student to choose topics of particular interest to him. (VAR)

POS 518 – INDEPENDENT STUDY (Variable)

By arrangement with the instructor.

POS 533 – FLORIDA CONSTITUTIONAL LAW (5)

An intensive examination of the principles of the Florida Constitution and of the role of the State Supreme Court. Emphasizes the relationship between state constitutional law and contemporary political, social, and economic problems in the state. (PL)

POS 541 – TOPICS IN EDUCATIONAL POLICY (Variable)

An intensive examination of selected topics dealing with educational policy. The subjects will vary, depending upon the desires of both students and faculty. (VAR)

POS 552 – TOPICS IN PUBLIC POLICY (Variable)

An intensive examination of selected topics dealing with public policy. Subjects will vary, depending upon the desires of both students and faculty. Allows the student to choose topics of particular interest to him. (VAR)

POS 553 – TOPICS IN PUBLIC LAW (Variable)

An intensive examination of selected topics in the field of public law. The subjects will vary, depending upon the desires of both students and faculty. (VAR)

POS 556 – TOPICS IN POLITICS AND THE ARTS (5)

An intensive examination of selected topics in the field of politics and the arts. Subjects will vary, depending upon the desires of both students and faculty. (AP)

POS 559 – THE MULTI-NATIONAL CORPORATION AND CARIBBEAN DEVELOPMENT (5)

An analysis of the development and role of the multi-national corporation in the Caribbean area, emphasizing its implications for the political and economic development of certain states. (CP, IP)

POS 566 – TOPICS IN POLITICAL THEORY (Variable)
An intensive examination of selected topics dealing with political theory. The subjects will vary, depending upon the desires of both students and faculty. Allows the student to choose topics of particular interest to him. (VAR)

POS 572 – TOPICS IN POLITICS (Variable)
Subject matter varies according to instructor. (VAR)

POS 586 – TOPICS IN INTERNATIONAL POLITICS (VAR)
An intensive examination of selected topics with an international dimension. Subjects will vary, depending upon the desires of both students and faculty. Allows the student to choose topics of particular interest to him. (VAR)

POS 587 – TOPICS IN INTERNATIONAL LAW (Variable)
An intensive examination of selected topics in international law. Subjects will vary, including for instance, the political dimension of international law, depending upon the desires of both students and faculty. Allows the student to choose topics of particular interest to him. (VAR)

POS 588 – TOPICS IN COMPARATIVE POLITICS (Variable)
An intensive examination of selected political topics from a cross-national point of view. The subjects will vary, depending upon the desires to both students and faculty Allows the student to choose topics of particular interest to him. (VAR)

POS 591 – HONORS SEMINAR
Subject matter varies according to instructor. (VAR)

POS 592 – HONORS SEMINAR
Subject matter varies according to instructor. (VAR)

POS 593 – HONORS SEMINAR
Subject matter varies according to instructor. (VAR)

POS 605 – SEMINAR IN COMPARATIVE POLITICS (VAR)

POS 607 – SEMINAR IN POLITICAL THEORY (VAR)

POS 615 – SEMINAR IN PUBLIC POLICY (VAR)

POS 617 – SEMINAR IN INTERNATIONAL POLITICS (VAR)

POS 618 – SEMINAR IN URBAN SYSTEMS (VAR)

POS 625 – INTERNSHIP IN PUBLIC POLICY (VAR)

POS 683 – TOPICS IN POLITICS (VAR)
Subject matter varies according to instructor.

PSYCHOLOGY MAJORS

LOWER DIVISION PREPARATION:

Required Course:
Introductory Psychology

Recommended Courses:
Physics, Biology, Sociology, Philosophy, Economics, Calculus, Mathematics.

UPPER DIVISION PROGRAM:

Required Courses:	**Quarter hours**
PSY 349 Advanced General Psychology with lab (Junior Year)	7
One other laboratory or field experience	7
MAS 307 – Introduction to Statistics (Junior Year)	5
Additional Psychology courses (Limit of 60 total quarter hours in Psychology)	31-46

Recommended Elective:
The course Overview in Psychology is strongly advised for those students planning on taking the psychology specialty part of the Graduate Record Exam.

All Psychology majors are strongly advised to take at least 30 hours of courses other than psychology and statistics.

Remarks:
THE BACCALAUREATE DEGREE IN PSYCHOLOGY: The baccalaureate degree is a liberal arts degree, not a professional degree. While it is possible to concentrate courses in one's area of interest, it is not possible to obtain a "professional specialization" at the undergraduate level in psychology.

AB With Honors:
Application must be made and departmental approval granted before the third quarter of the junior year to undertake an independent project which must be approved by and carried out under the supervision of a member of the Department. Upon completion of the study, a satisfactory oral defense of the work must be presented to a Departmental Committee.

PSYCHOLOGY

PSY 300 – INTRODUCTORY PSYCHOLOGY (5) **(F,SS)**

Psychological principles underlying basic processes such as perceiving, learning, thinking, motivation and emotions. Students will be introduced to theories and research methods in terms of their contributions to contemporary psychology. This course will not count towards the major in psychology. It is designed for non-majors and is a prerequisite for majors who have not had an introductory course in psychology.

PSY 305 – INTRODUCTORY EDUCATIONAL PSYCHOLOGY (5) **(F,W,S,SS)**

An introduction to the ways in which the principles of psychology apply to educational practices, considering aspects of the basic processes such as development, learning, individual differences and adjustment, with special reference to the problems of teacher effectiveness and teacher-student interaction. This course is designed for students who have not had a prior course in Educational Psychology. While not designed as a course for Psychology majors, it may, under special petition, be counted as meeting an elective requirement in Psychology.

PSY 307 – HUMAN GROWTH AND DEVELOPMENT (5) **(F,S,SS)**

An introductory study of the development of personality, intelligence, and motivation from childhood to adulthood, emphasis will be placed on development of cognitive systems through social learning. This course is designed primarily for students enrolled in the Schools of Education and Health and Social Services. Students planning to major in Psychology should enroll in PSY 330.

PSY 310 – PSYCHOLOGY OF WOMEN (5) **(F)**

An examination of women from various perspectives, such as biological, anthropological, mythological, religious, historical, legal, sociological and psycho-analytical points of view. Discussion of how these various perspectives influence the psychological development of contemporary women.

PSY 311 – PSYCHOLOGY OF DRUGS AND DRUG ABUSE (5) **(W)**

This course will cover some basic information about the nature and

effects of the families of drugs abused, the social and personal dynamics involved in the phenomena of drug abuse and the various rehabilitation programs currently being employed to combat drug abuse.

PSY 320 – INTRODUCTION TO COMMUNITY PSYCHOLOGY (5) (F,S)
An introduction to the issues and scope of community psychology. Students will be exposed to the development of community psychology as a growing discipline. Particular emphasis will be placed on the role of the community psychologist as an agent of social change.

PSY 321 – PSYCHOLOGY OF RACISM (5) (W)
Consideration will be given to the nature and development of institutional racism in America. The historical, social, economic and psychological aspects of racism will be examined.

PSY 322 – PSYCHOLOGY OF THE DISADVANTAGED (5) (S)
This course will examine the psychological aspects of the concept of the "disadvantaged" in terms of contemporary society. Data from studies of so-called disadvantaged groups will be examined in terms of the types of groups, cultural, ethnic and social environments.

PSY 330 – INTRODUCTORY DEVELOPMENTAL PSYCHOLOGY (5) (F,W,SS)
An introduction to human development focusing on infancy and childhood. Particular attention will be devoted to intellectual, personality, and social development. Consideration will be given to both theoretical and empirical perspectives. This course or its equivalent must be completed successfully before students may enroll in most 400 and 500 level courses in developmental psychology.

PSY 331 – PSYCHOLOGY OF ADOLESCENCE (5) (W)
An examination of the psychological, sociological and biological factors contributing to the changes from childhood to adolescence and from adolescence to young adulthood.

PSY 332 – PSYCHOLOGY OF ADULTHOOD AND AGING (5) (S)
The transition from youth to middle age, and from middle age to old age will be studied. Focus will be placed on changing roles in family, work, and societal settings as these factors influence personality and other aspects of psychological function. (Offered alternate years.)

PSY 349 – ADVANCED GENERAL PSYCHOLOGY WITH LABORATORY (7) (F,W,S)
An intensive lecture and laboratory course designed to present the basic concepts and methods of traditional and contemporary psychology. Emphasis will be placed on the role of methodology and

experimentation in all phases of psychology. Students will study sensory systems, information processing, perception and other psychological processes. In addition to classroom experience, students will participate in laboratory exercises designed to illustrate concepts covered in lectures. The laboratory aspect of the course will provide students with an opportunity to develop and use skills and techniques employed in the execution of human psychological experiments, and will meet requirements of a laboratory course in experimental psychology. This course is required of all psychology majors and must be completed during the first year of residence.

PSY 350 – INTRODUCTORY INDUSTRIAL/ ORGANIZATIONAL PSYCHOLOGY (5) (F,W)
Introduction to the study of behavior in the work environment. Illustrative topics include formal and informal organization, work motivation, satisfaction and performance, leadership, job analysis, selection, and performance evaluation, training and development, advertising and consumer behavior, and industrial clinical psychology.

PSY 360 – THEORIES OF PERSONALITY (5) (F,S)
An examination of various theories of personality. Consideration will be given to traditional and contemporary approaches to personality development.

PSY 361 – MOTIVATION AND EMOTION (5) (F,W)
Introduces several perspectives from learning theory, perception, and personality theory to explore why and how people move through their physical and social environment.

PSY 370 – INTRODUCTORY SOCIAL PSYCHOLOGY (5) (F,W)
Introduction to the study of the relationship of the individual to Social Systems including topics such as social behavior, attitude development and change, social conflict, group processes, mass phenomena and communication.

PSY 371 – APPLIED SOCIAL PSYCHOLOGY (5) (W)
Application of principles and methods of social psychology to behavior of substance in the life of the individual student. Emphasis on user-applied information about behavior, and in particular interpersonal behavior applications. Content and practical applications rather than in-class experience or research findings will be emphasized.

PSY 410 – ENVIRONMENTAL PSYCHOLOGY (5) (W)
An introduction to the man-environment interaction, including psychological, sociological and physical aspects.

PSY 411 – PSYCHOLOGY OF SCIENTIFIC CONTROVERSIES (5) (F)
The "anatomy" of controversies is analyzed with respect to their

essential psychological qualities and role in the process of scientific development. This evaluation is considered in terms of the relationship between orthodoxy and the social nature of scientific progress. Some knowledge of science and scientific methods is desirable for this course.

PSY 412 – PSYCHOLOGY OF LANGUAGE (5) (W)

An overview of the psychology of language and the psychological "reality" of linguistic structures, behavioristic vs. cognitive views of psycholinguistics will be examined. Consideration will be given to the biological basis of language, language and thought, language acquisition, and language pathology.

PSY 413 – PRINCIPLES AND THEORIES OF BEHAVIOR MODIFICATION (5) (S)

Studies different approaches to the modification of problem behavior through the application of learning principles and theories.

PSY 420 – PSYCHOLOGICAL ASPECTS AND TECHNIQUES OF INSTITUTIONAL CHANGE (5) (W)

An examination of methods of implementing institutional change. Consideration will be given to alternatives such as violent vs. non-violent confrontation, the use of information as an instrument of change and others.

PSY 421 – TOPICS IN COMMUNITY PSYCHOLOGY (5) (S)

Various topics and current methods in community psychology will be covered. Students enrolled in this course will focus on the psychological aspects of various community problems such as drugs, racism, overpopulation, ecology, militarism, women's liberation, the youth movement, etc.

PSY 429 – COMMUNITY PSYCHOLOGY FIELD EXPERIENCES I (7) (F)

Students will be organized into task oriented teams or will work independently in the community for the purpose of becoming familiar with various community institutions and for developing an action plan for assisting institutions in implementing change. Students enrolled in this course should have successfully completed Introductory Community Psychology and Psychological Aspects and Techniques of Institutional Change.

PSY 430 – LANGUAGE ACQUISITION (5) (S)

An examination of how children acquire language, based on experimental findings from contemporary linguistic, psycholinguistic and behavioral theory.

PSY 431 – COGNITIVE DEVELOPMENT (5) **(S)**

An examination of developmental changes in the nature of children's thought processes. Particular emphasis will be given to the theories of Jean Piaget. Prerequisite: Students should have successfully completed a course in introductory developmental psychology or its equivalent.

PSY 432 – CHILDREN'S LEARNING (5) **(W)**

Learning in infancy and childhood with particular emphasis on simple conditioning, discrimination shifts, mediation, transposition, observational and concept learning. Students enrolling in this course should have completed successfully at least one prior course in developmental psychology.

PSY 433 – SOCIAL AND PERSONALITY DEVELOPMENT (5) **(W)**

An examination of the genetic, familial, and societal factors influencing the development of a child's personality and his social behavior. (Offered alternate years.)

PSY 439 – DEVELOPMENTAL PSYCHOLOGY LABORATORY (7) **(F,S)**

Laboratory/observation exercises illustrative of the concepts and research techniques used in developmental psychology. Particular emphasis will be given to cognitive and social-cognitive development. Students should have successfully completed at least two courses in developmental psychology, and should obtain the permission of the instructor.

PSY 440 – CURRENT EXPERIMENTAL THEORIES (5) **(F,S)**

The stress in this course is upon current specific theories determining the nature and direction of the research and interest in the several important areas such as psychophysics, learning and remembering, developmental patterns and motivation, personality, etc. Topics to be covered will be announced at the beginning of the academic year. May be taken twice for credit toward the major.

PSY 441 – SENSATION AND PERCEPTION LECTURES AND LABORATORY (7) **(F)**

Basic concepts in sensation and perception will be explored, with an emphasis on models of peripheral and central neural processing. Topics such as receptor function, brightness and color vision, movement and object perception, perceptual memory and pattern recognition will be considered. Psychophysical techniques such as subjective magnitude estimation and signal detection theory will be offered. Students who have not had Advanced General Psychology with Laboratory should first complete successfully PSY 349.

PSY 442 – COGNITIVE PROCESSES (WITH LABORATORY) (7) **(W)**

Lecture and laboratory investigation of the mental processing underlying experience and behavior. Special emphasis is placed on

theory and research relating to organizing processes and operations central to the acquisition of knowledge. Students who have not had Advanced General Psychology with Laboratory should first complete successfully PSY 349.

PSY 443 – INTRODUCTORY BIO-PSYCHOLOGY (5) (F)
A study of the more important psychobiologic correlates of behavior in basic psychological phenomena. Open only to majors in the senior year or otherwise qualified students.

PSY 449 – HUMAN LEARNING AND REMEMBERING LECTURES AND LABORATORY (7) (S)
Lectures on the research and theoretical contributions to the understanding of human learning and remembering, and laboratory exercises illustrative of the concepts and techniques used in the conduct of experimental studies of human learning and remembering. Students who have not had Advanced General Psychology With Laboratory should first complete successfully PSY 349.

PSY 450 – ORGANIZATIONAL PSYCHOLOGY (5)
Survey of the theoretical and methodological issues in the study of organizational structures and environments, focusing on social processes as constraints on organizational functioning.

PSY 451 – PERSONNEL PSYCHOLOGY (5)
Techniques and procedures applicable to the selection, placement, utilization, and evaluation of personnel in organizations will be considered. The emphasis will be on empirical procedures rather than the management function in the personnel area. Topics such as quantitative methods and models for selection, criteria analysis, performance appraisal, management training, and job satisfaction will be discussed. Prerequisites: Statistics and Introductory Industrial/Organizational Psychology 350.

PSY 452 – CONSUMER PSYCHOLOGY (5) (F,W)
This course will study and review the psychological components contributing to satisfactions and dissatisfactions in buying and selling transactions. It will also study the consequences of such transactions as they affect the environment in which we live as well as society in general. The interface between business, labor, government and the consumer—as all four groups are involved in consumer affairs—will be objectively analyzed.

PSY 460 – PSYCHOLOGY OF INDIVIDUAL DIFFERENCES (5)
The uniqueness of each human being is discussed with reference to human differences and similarities. Principles and theories of contemporary psychological tests which underlie personality, intellectual and skill differences are presented.

PSY 461 – ABNORMAL PSYCHOLOGY (5) **(W,S)**

Various forms of behavior pathology are examined in the light of traditional and current concepts of mental health and illness. Problems of diagnosis and treatment will be discussed. Role of social mores is adduced.

PSY 462 – TOPICS IN PERSONALITY (Variable) **(F,W,S,SS)**

PSY 470 – INTERPERSONAL INTERACTION (5) **(S)**

Research methods and findings on the topic of interpersonal interaction in face-to-face situations. Emphasis on content of research methods and findings rather than in-class experiences. Students wishing to enroll should have successfully completed an introductory course in social or applied social psychology or its equivalent.

PSY 471 – SMALL GROUP BEHAVIOR (5) **(F,W)**

Introduction to the study of the structure and function of groups emphasizing the behavior of individuals as affected by the group. The course will focus upon experimental evidence concerning such topics as social facilitation, group decision making, phases in group development, physical factors in group behavior, etc., rather than upon student personal experience in sensitivity or encounter training.

PSY 472 – EXPERIMENTAL SOCIAL PSYCHOLOGY (5) **(S)**

Analysis of theories and data from the field of experimental social psychology.

PSY 479 – EXPERIMENTAL SOCIAL PSYCHOLOGY LECTURES AND LABORATORY (7) **(S)**

The primary purpose of this course is to have students conduct actual social psychological experiments. Lecture material will be secondary to and in the interest of allowing students to execute representative experiments in areas such as attitude measurement and change, conformity, group structure and communication, etc.

PSY 480 – SPECIAL TOPICS IN PSYCHOLOGY (Variable)

PSY 481 — PSYCHOLOGY ASPECTS OF INTERNATIONAL RELATIONS AND CONFLICT (5) (W)

A study of the psychological, especially social, factors in the dynamics of international behavior interactions which may increase or decrease tensions and conflicts.

PSY 482 — ATTITUDES AND ETHNICITY: A CROSS-CULTURAL PSYCHOLOGICAL APPROACH (5)

Comparative study of the attitudes and practices of racial and ethnic groups toward each other in a variety of cultural and national settings.

PSY 483 — PSYCHOLOGICAL INFLUENCE OF CULTURE ON LEARNING AND THINKING (5)

An analysis of the research and theory relating cultural and societal influences of learning and thinking. Consideration will be given to the controversies concerning assessment, individual and group differences. Prior course work in developmental psychology would be helpful.

PSY 489 — OVERVIEW OF PSYCHOLOGY (5) (W)

A consideration of the historical origins and developments of modern psychology as a viable discipline, in the light of the major influences upon its growth. Enrollment will be limited to students who have satisfactorily completed at least 20 quarter hours in upper division psychology courses.

PSY 499 — HONORS RESEARCH PROJECT (Variable)

Limited to qualified seniors seeking honors in psychology. Students must submit a research plan and have a research advisor selected who has approved the research project prior to enrollment in the course. A written report of the research in the A.P.A. publication style must be submitted for evaluation before credit will be awarded.

PSY 510 — PSYCHOLOGICAL FACTORS IN IDENTIFICATION AND ALIENATION IN CHILDHOOD AND ADOLESCENCE (5)

An intensive study of the issues and research dealing with the psychological, cultural and sociological factors leading to individual and group identification and alienation during childhood and adolescence. Successful completion of an introductory course in developmental psychology or its equivalent is necessary prior to enrollment in this course.

PSY 529 — COMMUNITY PSYCHOLOGY FIELD EXPERIENCES II (7) (W)

Same orientation and description as Field Experience I. Students in this course will be able to pursue their work with community institutions in more depth. Students enrolled in this course must have completed Field Experience in Community Psychology I.

PSY 530 – CULTURE AND CHILDHOOD (5) **(W,S)**

An examination of cultural and societal influences on children's motor, perceptual, intellectual, and personality development. Extensive readings in the cross-cultural research literature will serve as the focus for class discussions and independent projects. Students should have successfully completed at least two courses in developmental psychology or should obtain the permission of the instructor. The course is designed for seniors and graduate students with backgrounds in Psychology and/or Anthropology.

PSY 531 – DISORDERS OF LANGUAGE IN CHILDHOOD (5) **(F)**

This course focuses on the failure of children to acquire normal speech and language. The various causes of such disorders and theories to account for failure to acquire language are considered. Techniques for assessing language disorders in children are evaluated. Students enrolling in this course should ordinarily have completed at least one course in developmental psychology.

PSY 540 – HUMAN FACTORS (5) **(S)**

Basic data and theories of human factors. Focus is on the information processing demands associated with man-machine interaction and on equipment design as it pertains to these demands.

PSY 541 – BIO-PSYCHOLOGY I: SENSATION/PERCEPTION (5)

Topics included are: neural excitation and conduction, synaptic processes and integrating mechanisms, and psychophysiology of sensation and perception. (Offered alternate years.)

PSY 542 – BIO-PSYCHOLOGY II: MOTIVATION AND LEARNING (5)

A study of the neurophysiologic hormonal factors in behavior. Topics included are: nature of the neural mechanisms and hormonal contributions; neurology of learning; psycho-pharmacology; neural and humoral mechanisms of motivation. (Offered alternate years.)

PSY 552 – SEMINAR AND FIELD WORK IN CONSUMER PSYCHOLOGY (7) **(S)**

Students will work individually or in teams on topics and issues relevant to the needs of South Florida. The Research Projects approved will require gathering and analyzing of data calculated to help reduce or solve current consumer affairs problems. Emphasis will be placed on methods and measurements used by psychologists. It is recommended that students complete the course in Consumer Psychology prior to registering for this course.

PSY 559 – INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY LECTURES AND LABORATORY (7)

Students will gain experience with the use of psychometric instruments in the areas of job analysis, personnel selection, performance appraisal, job satisfaction, criteria analysis, and

management training and development. Prerequisites: Statistics, and Introductory Industrial/Organizational Psychology.

PSY 560 – PERSONALITY DYNAMICS (5) **(S)**

A review of different approaches to the study of personality dynamics. Special consideration is given to psychoanalysis and neo-analytic psychology. Other personality theories influencing modern psychological thought are also considered. Students should have successfully completed a course in theories of personality or its equivalent. Instructor's permission is required.

PSY 561 – CURRENT ISSUES IN MENTAL HEALTH (5)

Different approaches to the treatment of behavioral disorders are studied. The role of preventive measures in promoting mental health is emphasized. Different aspects of the therapeutic relationship, as well as professional and ethical issues are considered. Students should have successfully completed one course in abnormal psychology. Instructor's permission is required.

PSY 562 – HUMANISTIC PSYCHOLOGY (5)

Studies in methodology, research and findings of the humanistic orientation in psychology. Topics such as creativity, psychotherapy, encounter groups and religion are examined from the humanistic viewpoint. Students should have successfully completed one course in Theories of Personality or its equivalent. Instructor's permission is required.

PSY 569 – DIFFERENTIAL PSYCHOLOGY LABORATORY (7) **(F,S)**

Lectures and laboratory field experiences in the principles and methods underlying the administration, construction and evaluation of psychological tests, and practice in the administration and interpretation of selected psychological tests. Students who have not had an introductory course in statistics should first complete successfully MAS 307 or its equivalent.

PSY 570 – ADVANCED SOCIAL PSYCHOLOGY (5) **(W)**

An in-depth examination of the role of social psychology in the social sciences and the major substantive problems as they relate to contemporary societal issues. Students enrolling in this course should have completed successfully at least an introductory course in social psychology or its equivalent.

PSY 580 – SPECIAL TOPICS IN PSYCHOLOGY (Variable) **(F,W,S,SS)**

PSY 590 – INDEPENDENT READINGS IN PSYCHOLOGY (Variable) **(F,W,S,SS)**

Limited to qualified students who have permission from a faculty member and who present a plan of study including area and objectives. Students enrolled in this course will be expected to have

regularly scheduled meetings with their faculty advisor, and to submit a written report of their study.

PSY 591 – INDEPENDENT FIELD EXPERIENCES IN PSYCHOLOGY (Variable) **(F,W,S,SS)**

Limited to qualified students who have permission from a faculty member and who present a plan of study including area and objectives. Students enrolled in this course will be expected to have regularly scheduled meetings with their faculty advisor, and to submit a written report of their experiences.

PSY 592 – INDEPENDENT RESEARCH IN PSYCHOLOGY (Variable) **(F,W,S,SS)**

Limited to qualified students who have permission from a faculty member and who present a written proposal for research. Students enrolled in this course will be expected to have regularly scheduled meetings with their faculty advisor, to conduct the research, and to submit a written report of their research.

PSY 601 – SPECIAL TOPICS IN EDUCATIONAL PSYCHOLOGY (Variable)

An intensive analysis of a particular topic in educational psychology. Students will have to have topics approved by the instructor prior to registration. Open only to advanced and graduate students in the School of Education.

SOCIOLOGY AND ANTHROPOLOGY MAJORS

Sociology is part of the Department of Sociology and Anthropology and all information should be obtained from that department's office.

LOWER DIVISION PREPARATION:

Ninety quarter hours (60 semester hours) or the AA degree from a community college; work should be pre-Arts and Sciences, or pre-Anthropology or Sociology if such programs exist. If the student does not have an AA degree, his background must reflect an ability to handle advanced academic work.

The quarter hours of lower division course work should include the following:

Required Courses:
Introduction to Cultural Anthropology, or
Introduction to Physical Anthropology, or
Introduction to Sociology.

Recommended Courses:
Other Anthropology or Sociology courses.

Other Social Science courses (Ecology, Economics, Geography, History, Political Science. Psychology).

Other Arts and Sciences courses (Arts, Biology, English, Foreign Language, Mathematics, Philosophy).

UPPER DIVISION PROGRAM:

Program Requirements:
60 quarter hours in departmental major
30 quarter hours in electives

Required Courses:
Sixty quarter hours in the departmental major will be divided as follows:

Core Courses:	20 quarter hours
Anthropological Theories	(ASC 301)
Sociological Theories	(ASC 302)
Research Methods	(ASC 303)
Ethical Issues in Social Science Research	(ASC 304)

Area Courses:
For a concentration in anthropology, a mix of 25 quarter hours of anthropological and 15 quarter hours of sociological course work is recommended.

For a concentration in sociology, a mix of 25 quarter hours of sociological and 15 quarter hours of anthropology course work is recommended.

Electives: 30 quarter hours
Electives need the approval of your faculty advisor.

A course in introductory statistics is strongly recommended for all majors.

Students with special interests may consult faculty advisors for individualized programs.

Field Work Experience:
A meaningful understanding of anthropology and sociology can best be developed through the interplay between theory and research. Each student will be encouraged to work outside of the formal classroom under faculty supervision.

SOCIOLOGY

ASC 301 — ANTHROPOLOGICAL THEORIES (5)
This course examines the process of theory building and explanation in the social sciences and outlines the historical and philosophical foundations of anthropological thought. Theorists and schools of thought reviewed include Darwin and evolution, Boas and historical particularism, Freud and culture and personality, and Malinowski and functionalism.

ASC 302 – SOCIOLOGICAL THEORIES (5)

Examines the emergence of sociology as the study of social relations. Compares and contrasts the work of selected theorists with respect to their methodologies, treatment of the emergence and consequences of modern society, political sociology, conception of social class and analysis of the role of religion in society. The student is expected to gain in-depth knowledge of opposing theories as well as an appreciation of the contingent nature of sociological theories.

ASC 303 – RESEARCH METHODS (5)

An introduction to the scientific method and its application to anthropological and sociological research. Topics include formulation of research problems, research design, field methods and collection of data, hypothesis testing and interpretation of results.

ASC 304 – ETHICAL ISSUES IN SOCIAL SCIENCE RESEARCH (5)

An introduction to the problems and possibilities of ethical premises in the perspectives and work of social scientists. Examination of historical interrelationships between moral philosophies and developing scientific methodologies. Analyses of contemporary social ethicists' attempts to assume moral postures while examining social relations. Case studies involving issues such as nation-building in areas of accelerated change including Africa and Asia.

SOC 301 – THE SCOPE OF SOCIOLOGY (5)

Introduction to the field of sociology with particular emphasis on scope and limitations. Basic but major divisions of the discipline will be introduced. Vocabulary, conceptualizations, research approaches, and vocational opportunities will be reviewed. The relationship of theory and empirical study will be stressed. (Also recommended for non-majors.)

SOC 302 – THE BASIC IDEAS OF SOCIOLOGY (5)

The course will introduce the student to the ideas of community, authority, status, alienation and the sacred as used in sociological literature.

SOC 311 – THE INDIVIDUAL IN SOCIETY (5)

Introduction to the study of the individual as a social being with particular emphasis on man's social origins, human perceptions, and the interaction of the individual and the group within society.

SOC 312 – SMALL GROUPS (5)

Survey of small group studies, their development and the associated theoretical schools of thought. The significance of small group studies for social theory is evaluated.

SOC 313 – COLLECTIVE BEHAVIOR (5)

The study of human behavior as found in relatively unstructured forms such as crowds, riots, revivals, public opinion, social

movements, and fads. The interplay of such behavior and the rise of new norms and values are analyzed.

SOC 321 – CRIMINOLOGY (5)
An introduction to the study of criminal behavior, its evidence in society, society's reaction to the subjects involved, and the current state of theoretical thought on causality and treatment.

SOC 322 – DELINQUENCY (5)
An analysis of behavior which is extra legal with major concentration on its appearance among young people (juveniles) and society's response. Particular emphasis is given to the dynamic thrusts being made in establishing juvenile rights as a distinct part of human or civil rights.

SOC 323 – SOCIAL DEVIANCY (DEVIANT BEHAVIOR) (5)
The study of behavior that counters the culturally accepted norms or regularities. The social implications of deviancy are reviewed and theoretical formulations regarding deviant behavior are analyzed.

SOC 331-332-333-334-335 – COMMUNITY SOCIOLOGY COURSES (5)
Special courses dealing with community programs such as Model Cities, voluntary organizations, United Fund, inner city schools, public service agencies. Faculty will come from community agencies, and course work will focus on local problems.

SOC 341 – THE COMMUNITY (5)
The social group known as the community is identified and analyzed for its distinctive qualities. By distinguishing it from other social groups its dominating force on the behavior of its members is recognized. Attention is given to the interaction of individuals and groups as they exist within the community.

SOC 342 – THE SOCIAL SYSTEM (5)
The study of society as a system, the benefits of such a conceptual approach, and related theoretical constructs are compared.

SOC 343 – SCHOOL AND SOCIETY (5)
A specialized course dealing with the place of schools (particularly public) in society and the import of social criteria for school personnel and the influence of such criteria on the educational processes within the school system (institution).

SOC 351 – INTRODUCTION TO POPULATION ANALYSIS (5)
An introduction to the study of population analysis. Classifications by age, sex, occupation, or other criteria and the significance of such data for analyzing major social trends are studied. The import of statistical records such as births, deaths, marriage registrations and census data is reviewed and analyzed.

SOC 352 – HUMAN ECOLOGY (5)

An introduction to the adaptive processes social beings make to their environment with particular emphasis on spatial distributions of inter-related social facts such as crime rates and population characteristics or poverty and housing conditions. Current studies on social inter-relationships and physical environments are introduced.

SOC 361 – SOCIAL INSTITUTIONS/ORGANIZATION (5)

An introduction to more formalized behaviors that tend to provide accepted, orderly, and enduring procedures for groups having more than narrow interests and which perpetuate themselves and continue their existence as a group. These institutionalized ways of behavior are associated with specific institutions and studied comparatively.

SOC 363 – MARRIAGE AND THE FAMILY (5)

An introduction to the intensive study of the kinship relationship of man known as the family. The family is distinguished from other social units and behaviour variations of this special unit are analyzed and associated with special functions. Contemporary manifestations of the family and the dynamic changes indicated are considered.

SOC 371 – SOCIAL PROBLEMS (5)

An introduction to the concept of a social problem and the approaches used to understand more fully the total dimensions of some specific problems. Special emphasis is given to clarifying one's understanding of the underlying nature for selected social problems, an analysis of those aspects amenable to remedy, and an inventory of the knowledge and skills available.

SOC 381 – SOCIAL CHANGE (5)

The study of major shifts in focus for societies or culture is covered, and the course defines indicators associated with such changes. Particular attention is given to the development of industrial societies and the study of the dynamics involved for nations emerging from various stages of "underdevelopment."

SOC 402 – BASIC RESEARCH DESIGN (5)

Advanced course in social research which provides research practicum for studying patterns of human behavior, analyzing findings of studies methodical and analytical procedures, reporting and explaining these results, and applying these inferences to concrete situations, also acquaint the student with the use of computers in research in the behavioral sciences.

SOC 403 – ADVANCED SOCIAL THEORY (5)

An analysis of various classical and current sociological theories with particular attention paid to their conceptions of man in society and the wider implications such conceptions have for their theoretical perspective. The theories of Durkheim, Parsons, Weber, Goffman, Bendix and Dahrendorf will be examined.

SOC 404 – ETHNOMETHODOLOGY (5)

SOC 405 – THE CLASSICAL TRADITION IN SOCIAL THEORY (5)
An examination of the classical theorists in sociology—included are Marx, Weber, Durkheim, Pareto, Toonies, and Freud.

SOC 406 – SOCIOLOGY OF THE 20th CENTURY (5)
An examination of the sociological implications evident in the events of our modern world. Heavy reliance is placed on intellectual materials other than social science, especially literature.

SOC 411 – ROLE THEORY (5)
An analysis of the relation between man and society from the perspectives of role theory. The course explores the effect society has on individual biography and action.

SOC 412 – SYMBOLS AND SOCIETY (5)
An analysis of the effect of culture on the individual and on society. The roles of popular and intellectual culture life will be examined.

SOC 413 – MASS CULTURE (5)

SOC 414 – SOCIOLOGY THROUGH FILM (5)

SOC 421 – THERAPY AS A SOCIAL INSTITUTION (5)
An analysis of psychotherapy from the sociological perspective. The effect of therapy on society and its functioning in society are also analyzed. Comparable institutions in other societies are examined.

SOC 422 – CLINICAL SOCIOLOGY (5)
The problems of alienation, anomie, and happiness will be analyzed. A third position between social work and social change will be sought. Personal adjustment, social revolution, and individual calculation will be weighed as responses to the demands of social life.

SOC 431-432-433-434-435 – AREA STUDIES: SOCIAL STRUCTURES AND PROBLEMS (5)
Special courses on the social structures and related sociological problems of specific geographical and cultural areas. To be offered at various times.

SOC 436 – LATIN AMERICAN AND CARIBBEAN SOCIAL STRUCTURES (5)
The types of social structures, statuses and roles and the resulting distributions of power and authority in the hemisphere.

SOC 441 – COMMUNITY ORGANIZATION (5)
An intensive study of how communities are organized, with special emphasis on the interactive process of the varied components of a

community. Special study permitting students to concentrate on interest areas is required.

SOC 442 – COMPARATIVE SOCIAL SYSTEMS (5)

The study of varied social systems particularly as to those qualities regularly occurring in each and those which differ. Such variables are then analyzed for associational correlates to the systems studied.

SOC 451 – URBAN SOCIOLOGY (5)

The study of society as manifested in the urban community with particular attention given to the problems associated with urban life. The development of urban societies, is reviewed historically and factors associated with this development are identified.

SOC 452 – RURAL SOCIOLOGY (5)

The study of agrarian society or the pre-urban or pre-city society. Distinctive factors associated with such social life are identified, and particular attention is given to defining indicators associated with rural society.

SOC 461 – SOCIAL STRATIFICATION (MOBILITY) (5)

The study of society structured hierarchically with particular attention given to the form and content of the various levels. Problems in the social order and differential human behaviors associated with stratification are analyzed.

SOC 462 – THE PROBLEM OF BUREAUCRACY IN THE MODERN WORLD (5)

The course deals with the microsociological problems of the internal organization of bureaucracies and with relation between bureaucracy and personality, with the macro-sociological problems of the emergence of the bureaucratic form, bureaucratization and contemporary life, as well as with general problems of affluence, meaningless activity, how to beat the bureaucracy, and bureaucracy and atrocity.

SOC 463 – COMPARATIVE FAMILY SYSTEMS (5)

The study of family organization and function in selected major world cultures. Emphasis is given to the inter-relationships of the family, the economic system, urbanization, and human development.

SOC 464 – STUDIES IN COMPARATIVE LIFE STYLES (5)

A problem oriented course emphasizing the differential behavior associated with categories such as nationalism, social class, income distribution, and political or religious affiliation.

SOC 471 – MINORITIES (RACE AND ETHNIC RELATIONS) (5)

The study of social groups identified by racial or ethnic characteristics. Particular emphasis is given to their role in society,

especially that society of which they are a part and the interactive process resulting from contact with the majority. Social behaviors of minorities are reviewed and related to institutional structures and their accepted norms.

SOC 472 – THE ROLE OF WOMEN IN CONTEMPORARY SOCIETY (5)

A concentrated study of women in society, role origins and their development in contemporary society. Particular attention is given to how such behaviors became normalized and the rapidity with which they change.

SOC 473 – HEALTH AND WELFARE DELIVERY SYSTEMS (5)

A review of the varied systems servicing society's health and welfare needs. Attention is given to the institutional origins of such systems and their propensity for change and modification. Studies reflecting evaluative considerations for such systems are reviewed.

SOC 474 – SOCIOLOGY AND SOCIAL PLANNING (5)

SOC 475 – SOCIOLOGY OF REAL ESTATE AND LAND USE (5)

SOC 476 – SOCIOLOGY OF THE UNDER PRIVILEGED SOCIETIES

An examination of the various theories concerning what is happening in the "underdeveloped world." The political, social, and economic events of these societies are subjected to sociological analysis.

SOC 481 – COMPARATIVE SOCIOLOGY (5)

A cross-cultural and cross-national survey of sociological studies with particular emphasis on theoretical and methodological issues. Examples will be drawn from studies on culture patterns, social structure, sexual mores, power relationships and the ethical implications of cross-national research.

SOC 482 – COMPARATIVE SLAVE SOCIETIES (5)

SOC 483 – HISTORICAL SOCIOLOGY (5)

The authenticity and meaning of historical data for sociological research. Systematic theories in history are analyzed for their utility in sociology. Particular emphasis will be placed on the sociological uses of the comparative method in history.

SOC 484 – PRECAPITALIST SOCIAL STRUCTURES (5)

SOC 485 – SOCIOLOGY OF FEUDALISM AND THE MIDDLE AGES (5)

SOC 491 – SOCIAL CONFLICT (5)

The study of conflict in society and its place in social relationships.

A study of causes and resolutions with particular emphasis on methods of resolution and their influence on social change.

SOC 492 – SOCIOLOGY OF SOCIOLOGY (5)
An analysis of the disciplines of Sociology and Anthropology using the tools developed by those disciplines themselves. The political, social and economic contexts of the field are examined to see how the discipline is used, for what advantages, and to what effect.

SOC 493 – BASIC ASSUMPTIONS OF SOCIOLOGY (5)
An analysis of the basic assumptions underlying the different perspectives in Sociology and Anthropology.

SOC 494 – INTELLECTUAL PRECURSORS OF SOCIOLOGY (5)
An analysis of social ideas from which sociology emerged. The ideas of Aristotle, Hobbes, Rousseau, and Marx, among others, will be discussed as contributions to the emergence of Sociology.

SOC 495 – SOCIOLOGY OF UTOPIA (5)
An analysis of utopian thinking as well as the sociological implications of utopianism.

SOC 511 – SOCIOLOGY OF ART AND LITERATURE (MODERN) (5)

SOC 531 – HONORS SEMINAR (5)
Permission of Instructor needed.

SOC 571 – MAN, SOCIETY AND TECHNOLOGY (5)
The study of contemporary society, man's role in it, and effects of technological change. A study of the interrelationships with special attention given to vocational study and instruction within the framework of the relationships perceived.

SOC 572 – SOCIOLOGY OF LAW AND LEGAL PROCESSES (5)

SOC 581 – INDUSTRIAL SOCIOLOGY (5)
Concentrated study of industrialization and the sociological theory involved. Manpower, unemployment, apprentice programs, classificatory schemes are subject matter studied.

SOC 582 – SOCIOLOGY OF EDUCATION (5)
An analysis of education as a social process and the interrelationship of educational systems and society. The study of education as a socialization process, the social structure of education, and the role played as an agent in social change are emphasized.

SOC 583 – SOCIOLOGY OF RELIGION (5)
The study of religious institutions, their structure and function in various societies. Leadership qualities, participation and practices,

and the relationship of religious institutions to other social institutions are studied.

SOC 584 – POLITICAL SOCIOLOGY (5)

The underlying social conditions of political order, political process and political behavior are explored. Examples will be drawn from empirical and theoretical studies of power, elites, social class and socialization.

SOC 585 – SOCIOLOGY OF MEDICINE (5)

The social organization of medical institutions and the social factors associated with incidence of physical/mental illness and its treatment. Opportunity available for students to pursue specialized interests related to public needs and medical services.

SOC 586 – SOCIOLOGY OF KNOWLEDGE (5)

The study of the theoretical bases of knowledge and the inter-relatedness of social factors, particularly as knowledge relates to institutional forms of behavior.

SOC 587 – SOCIOLOGY OF MENTAL HEALTH (5)

A concentrated study of mental illness with particular emphasis on definitional conceptualizations and the relationship of such to incidence data. Includes study of the social factors on the etiology of mental disorders and the epidemiology of such illnesses. Family effects of mental illness discovery and treatment are assessed and mental health programs and their effectiveness are reviewed.

SOC 588 – SOCIAL CONFLICT IN MULTI-ETHNIC SOCIETIES (5)

Cases are selected from a variety of societies with differing types of majority-minority situations. Prejudice and discrimination are seen as weapons in group and class conflict. The consequences of prejudice are analyzed in terms of the costs to every group in the society.

SOC 589 – CONFLICT RESOLUTION: SOCIETY AND LABOR (5)

A concentrated study of conflict as evidenced in labor's relationship to society. The development of methods of resolution and an assessment of the prevailing approaches. Attention is given to the historical roots of labor's development as a distinct social entity and the tensions precipitated within different societies and their varied economic and political systems.

SOC 590 – ADVANCED URBAN SOCIOLOGY (5)

A concentrated study of urban problems. Emphasis given to social policy and the role of public and private agencies in sustaining, administrating and changing such policy. Urban problems are studied as an intermix of social, cultural, political and economic factors. Methods of social cost analysis are discusse '

SOC 591 – DIRECTED INDIVIDUAL SUTDY (Variable) **(F,W,S,SS)**
Supervised readings and/or field research and training. May be repeated.

SOC 592 – DIRECTED FIELD RESEARCH (Variable)
Permission of Instructor required.

INTERDISCIPLINARY PROGRAM IN SOCIAL SCIENCE

LOWER DIVISION PREPARATION:

Required Courses: None

Recommended Courses:
Anthropology
Economics
Political Science
Psychology
Sociology
Urban/Environmental Studies
Mathematics
Philosophy
Statistics

UPPER DIVISION PROGRAM:

Required Courses:
Social Science Courses 45-60 quarter hours

This must include at least one upper division course from the following departments:

Economics
Political Science and Government
Psychology
Sociology/Anthropology
Non-Social Science Courses

Mathematics 307 – Introduction to Statistics 5 quarter hours

Remarks: In addition to the above requirements, students are required to elect the senior year interdisciplinary interdepartmental seminar on the integration of the social sciences and complete an independent project carried out under the supervision of a faculty committee and present an oral defense of their work.

Students who have not completed the statistics requirement prior to admission will be required to complete MAS 307 Introduction to Statistics or its equivalent during the first or second quarter of their enrollment at Florida International.

SOCIAL SCIENCES

SSC 500 – SOCIAL SCIENCES ADVANCED INTERDISCIPLINARY SEMINAR (5)

An interdisciplinary study group in social science. Faculty and students from the various social science departments participate in problem-oriented workshops. Topics to be announced. Open also to advanced students outside of the social sciences.

NATURAL AND APPLIED SCIENCES DIVISION

BIOLOGICAL SCIENCES MAJORS

LOWER DIVISION PREPARATION:

Required Courses:

General Biology	8 semester hours
General Chemistry	8 semester hours
General Physics	8 semester hours
College Algebra, Trigonometry and Analytical Geometry	9 semester hours

Recommended Courses:

Foreign Language Calculus Organic Chemistry

Remarks: Six (6) semester hours above the introductory level in biology may be counted toward the upper division major.

UPPER DIVISION PROGRAM:

Required Courses:

BSC 341 Genetics	5 quarter hours
BSC 301 Biochemistry	7 quarter hours
BSC 302 Molecular and Cell Biology	7 quarter hours
BSC 401 Developmental Biology	5 quarter hours
Biological Sciences Electives*	15 quarter hours
Chemistry 301**	7 quarter hours
Mathematics: One course beyond analytical Geometry	5 quarter hours
Electives	39 quarter hours
TOTAL	90 quarter hours

REMARKS:

*BSC 300, 305, 306, 308, 372, 374, 380 and 480 are not applicable to this requirement.

**Recommended: CHE 302

Attendance at Departmental Seminars is highly recommended to all Senior Students.

Special Programs

1. B.S. (With Honors)
   Requirements:
   a. Admission to program by permission of the Department.
   b. Program of study arranged in consultation with faculty adviser.
   c. Two quarters of BSC 590
   d. Completion of Undergraduate Honors Thesis.
2. Pre-Professional Curricula.
   Programs of study satisfying requirements for admission to colleges of

Medicine, Dentistry and Veterinary Medicine arranged in consultation with Faculty Adviser. CHE 302, CHE 311, and MAS 301, BSC 341, BSC 336 or BSC 401 are recommended as fulfilling requirements of many professional schools.

3. Minor Concentration in Human Biology
   Students may elect a minor concentration in Human Biology by selecting four courses from the following list:
   BSC 300 Human Biology
   BSC 305 Biology of Disease
   BSC 306 Biological Basis of Human Sexuality
   BSC 310 General Microbiology
   BSC 349 Biological Basis of Behaviour
   BSC 355, 356 Human Anatomy
   BSC 374 Human Physiology
   There are no prerequisites for BSC 300, 305, 306 and 374.
   BSC 451 or BSC 350 and 351 are included as options in the minor program.
4. M.S. in Biological Sciences
   Program in Preparation.

BIOLOGICAL SCIENCES

BSC 300 – HUMAN BIOLOGY (5) **(S)**
Human structure and function, with emphasis on aspects that relate to human development, genetics, population biology, and the environment. Modern advances in biology, genetic engineering, disease, and aging will be considered. Their relationship to social problems will be emphasized.

BSC 301 – BIOCHEMISTRY (7) **(W)**
Introduction to the chemistry of proteins, carbohydrates, lipids and their constituents. Principles of enzymology and metabolism. Prerequisite: CHE 220 (MDCC) or CHE 301. Core course required of majors in Biological Sciences.

BSC 302 – MOLECULAR BIOLOGY (5) **(S)**
Nucleic acid chemistry and Molecular Genetics; biosynthesis of protein and nucleic acids. Core Course required of majors in Biological Sciences. Prerequisite: BSC 301 or equivalent.

BSC 302L – MOLECULAR BIOLOGY LABORATORY (2) **(S)**
Laboratory to accompany BSC 302.

BSC 305 – BIOLOGY OF DISEASE (5)
Examination of the biological and social correlates of disease. Topics considered will include infections and degenerative processes, nutritional deficiences and effects of environmental agents such as radiation, pollutants, drugs and food additives. Modern research into

heart disease, cancer, genetic disease will be treated, with its implications for human society.

BSC 308 – BIOLOGICAL OCEANOGRAPHY (5) **(SS)**
The basic aspects of biological, geological, chemical, and physical oceanographic processes as they relate to marine organisms. Lecture and demonstrations. Prerequisites: None

BSC 310 – GENERAL MICROBIOLOGY (5)

BSC 310L – GENERAL MICROBIOLOGY LABORATORY (2)
Introduction to the principles and techniques of microbiology, genetics, taxonomy, biochemistry and ecology of microorganisms.

BSC 320 – TOPICS IN TROPICAL BOTANY (5) **(W)**
Survey of representatives of major plant families of the tropics. Examination of selected adaptive characteristics of plants in the tropical ecosystems. Introduction to spices and economically significant tropical plants.

BSC 321 – THE ALGAE (5)
Taxonomy, morphology, physiology and ecology of the algae. Lecture, conference, field trips and laboratory.

BSC 329 – BIOLOGY OF THE ORCHIDS (5) **(W)**
Examination of classification systems of the major orchid groups. Study of the role of floral morphology, environmental adaptation, and pollinator co-evolution in speciation. Summary of accepted cultural techniques.

BSC 329L – BIOLOGY OF THE ORCHIDS LABORATORY (2) **(W)**
Laboratory to accompany BSC 329

BSC 331 – THE INVERTEBRATES (5) **(S)**
Taxonomy, anatomy, development, physiology and ecology of major invertebrate phyla excluding insects. Emphasis on marine invertebrates.

BSC 331L – THE INVERTEBRATES LABORATORY (2)
Laboratory to accompany BSC 331.

BSC 332 – GENERAL ENTOMOLOGY (5)
Taxonomy, development, morphology and distribution of insects. Ecology and economic problems. Lecture conference and laboratory.

BSC 333 – GENERAL ICHTHYOLOGY (5)
Taxonomy, distribution, development, anatomy and physiology of fresh water and marine fish. Lecture, conference, field trips and laboratory.

BSC 334 – AMPHIBIANS AND REPTILES (5)
Comparative studies in distribution, development, anatomy and physiology of amphibians and reptiles. Lecture, conference, field trips and laboratory.

BSC 335 – BIRDS AND MAMMALS (5)
Taxonomy, distribution and natural history of birds and mammals. Lecture, conference, field trips and laboratory.

BSC 336 – EMBRYOLOGY (5)

BSC 336L – EMBRYOLOGY LABORATORY (2)
Animal morphogenesis. Lecture and laboratory. Prerequisite: BSC 336L must be accompanied or preceded by BSC 336 or 401.

BSC 337 – TOPICS IN MARINE BIOLOGY (5) **(W)**
Selected problems in the biology of marine organisms. Lecture and field trips.

BSC 338 – HISTOLOGY (5)

BSC 388L – HISTOLOGY LABORATORY (2)
Microscopic anatomy of cells, tissues, and organs. Lecture and laboratory.

BSC 339 – MICROTECHNIQUE (5)
Laboratory techniques of preparation and microscopic examination of cells, tissues, and organs.

BSC 341 – GENETICS (5) **(F)**
Mendelian inheritance and introduction to molecular genetics.

BSC 348 – ELEMENTARY NEUROBIOLOGY (5)
Survey of anatomy and physiology of invertebrate and vertebrate nervous systems, sensory physiology. Introduction to methods of study of neural function. Lecture, conference and laboratory.

BSC 349 – BIOLOGICAL FOUNDATIONS OF BEHAVIOUR (5)
Biological basis of behaviour emphasizing neural and hormonal mechanisms of integrated behaviour. Lecture, conference, library or laboratory projects.

BSC 350 – INTERMEDIATE HUMAN PHYSIOLOGY I (5) **(F)**
Basic facts and concepts relating to physiology of nervous, muscular, cardiovascular, and respiratory systems. Lecture and demonstration.

BSC 351 – INTERMEDIATE HUMAN PHYSIOLOGY II (4) **(W)**
Physiology of gastrointestinal, excretory, endocrine, and reproductive systems. Lecture and conference. Prerequisite: BSC 350.

BSC 351L – INTERMEDIATE HUMAN PHYSIOLOGY (1) (W)
Laboratory course demonstrating principles in BSC 350 and 351. Must be preceded or accompanied by BSC 351.

BSC 355 – HUMAN GROSS ANATOMY I (4) (F)
Structure and function of various tissues, organs, and organ systems of the human body.

BSC 355L – HUMAN GROSS ANATOMY LABORATORY (2) (F)
Dissection of human cadaver material to reveal the relationships of the various organ systems of the body.

BSC 355D – HUMAN GROSS ANATOMY DEMONSTRATIONS (1) (F)
Demonstrations of the prosected human cadaver.

BSC 356 – HUMAN GROSS ANATOMY II (4) (W)
Continuation of BSC 355. Prerequisite: BSC 355

BSC 356L – HUMAN GROSS ANATOMY LABORATORY II(2) (W)
Continuation of BSC 355L. Prerequisite: BSC 355 and 355L.

BSC 356D – HUMAN GROSS ANATOMY DEMONSTRATIONS (1) (W)
Continuation of BSC 355D. Prerequisite: BSC 355 and 355D.

BSC 357 – NEUROSCIENCE (5) (S)
Structure and function of the human nervous system. Prerequisite: One course in physiology, plus BSC 355 and 356.

BSC 357L – NEUROSCIENCE LABORATORY (1) (S)
Dissection and demonstration of the various parts of the human brain.

BSC 360 – FUNDAMENTALS OF ECOLOGY (5)
The basic principles governing the interaction of organism and environment. Trophic structure and energetics of ecosystems, biogeochemical cycles, limits and controlling factors in organismic distribution and abundance, biological interactions, species diversity, evolution of populations and communities, the impact of man. Lecture and field trips. Prerequisite: One year of biology; basic chemistry.

BSC 362 – MORPHOLOGY OF VASCULAR PLANTS (5)
A survey of groups of vascular plants emphasizing comparative life histories, vegetative and reproductive structures, and evolutionary relationships.

BSC 362L – PLANT MORPHOLOGY LABORATORY (2)
Laboratory to accompany BSC 362.

BSC 365 – INTRODUCTION TO PLANT PHYSIOLOGY (5)
Fundamentals of plant growth considering such topics as growth reactions to environmental stimuli, endogenous growth hormones, and practical modifications of plant life cycles.

BSC 370 – MEDICAL BIOCHEMISTRY (4)
Fundamentals of biochemistry course applied to medical problems required in Allied Health curricula. Lecture and laboratory.

BSC 371 – MEDICAL BIOCHEMISTRY (4)
Continuation of BSC 370

BSC 372 – INTERMEDIATE HUMAN PHYSIOLOGY II (2)
Physiology of gastrointestinal, excretory, endocrine, and reproductive system.

BSC 373 – HUMAN ANATOMY (5) **(F)**
Required course in Physical Therapy and Occupational Therapy. Lecture and demonstration.

BSC 374 – HUMAN PHYSIOLOGY (5) **(F,SS)**
Functional survey of the organ systems of the human body. Intended primarily for non-science majors.

BSC 375 – MEDICAL PARASITOLOGY (3) **(W)**
Required course in Medical Technology curriculum. Lecture and laboratory.

BSC 376 – IMMUNOLOGY AND GENETICS (3) **(W)**
Course required in Medical Technology curriculum. Lecture and laboratory.

BSC 380 – PROJECT LABORATORY (3-8) **(F,W,S,SS)**
Independent laboratory study in a project or projects of the student's choice. Registration by consultation with instructor. May be repeated for credit.

BSC 384 – HISTORY AND PHILOSOPHY OF SCIENCE (5) **(S)**
Philosophies of science with emphasis on Biology. Problems in contemporary ethics with reference to the impact of science and technology on society.

BSC 386 – COMPUTER APPLICATIONS TO BIOLOGY (5) **(S)**
Elementary instruction in the analysis of data from biological systems. Each student will be assigned a project. Lecture, conference and computer laboratory.

BSC 401 – DEVELOPMENTAL BIOLOGY (5) **(F)**
Comprehensive survey of principles of development and critical analysis of methods used to study these problems. Core course required of major in Biological Sciences. Prerequisite: BSC 302.

BSC 402 – TECHNIQUES IN DEVELOPMENTAL BIOLOGY (2) **(W)**
Experimental analysis of differentiation and morphogenesis. Registration limited to 12 students. Prerequisite: BSC 401.

BSC 403 – CELL BIOLOGY (5)
Structure and function of cellular organelles.

BSC 404 – BIOPHYSICS (6)
Topics in biophysics. Effect of radiation on biopolymers and microorganisms. Muscle contraction, transport across membranes, bioluminescence. Lecture, conference and laboratory.

BSC 411 – VIROLOGY (5) **(W)**
Principles and methods of study of bacterial plant and animal viruses. Molecular aspects of viral development, virus pathogens and carcinogens. Lecture, conference and laboratory.

BSC 411L – VIROLOGY LABORATORY (2) **(W)**
Laboratory to accompany BSC 411.

BSC 414 – ADVANCED MICROBIOLOGY (5)
Topics in metabolism, physiology, ecology, immuno chemistry, taxonomy, genetic and evolution of micro-organisms will be included. Prerequisites: One year of Organic Chemistry, BSC 301, 302.

BSC 414L – ADVANCED MICROBIOLOGY LABORATORY (2)
Laboratory exercises and projects to accompany BSC 414.

BSC 421 – MYCOLOGY (5)
Taxonomy, morphology, physiology and ecology of the fungi. Lecture, conference and laboratory.

BSC 423 – INVERTEBRATE PHYSIOLOGY (5)
Lectures treating functional processes in invertebrates from the standpoint of adaptation to their environment and specialization in evolution. Prerequisites: General Biology, Organic Chemistry, Invertebrate Zoology.

BSC 423L – INVERTEBRATE PHYSIOLOGY LABORATORY (2)
Laboratory study to follow or accompany BSC 423.

BSC 432 – BIOCHEMISTRY AND PHYSIOLOGY OF INSECTS (5)
Comparative studies in development, anatomy and physiology of insects. Lecture, conference, and laboratory. May be repeated for credit.

BSC 442 – MOLECULAR BIOLOGY LABORATORY (5)
Analytical, physical and biochemical methods in the study of nucleic acids; phage and microbial genetics, tissue culture. May also be taken as a project laboratory.

BSC 446 – IMMUNOCHEMISTRY AND IMMUNOBIOLOGY (5)
Chemistry of antibodies, antigens, serological reactions and complement fixation. Discussion of the biosyntheses of antibodies. Lecture, conference and laboratory.

BSC 451 – HUMAN SYSTEMIC PHYSIOLOGY (5)
Selected topics in mammalian and human physiology, with emphasis on topics of clinical significance.

BSC 461 – PLANT TAXONOMY (5) **(F)**
Systematics, classification and identification of vascular plants emphasizing native and cultivated representatives of tropical plant families.

BSC 461L – PLANT TAXONOMY LABORATORY (2) **(F)**
Laboratory to accompany BSC 461.

BSC 462 – ECONOMIC BOTANY (5) **(W)**
The relations of plants to man and civilization and a study of plants useful to man, emphasizing plants of the tropics.

BSC 462L – ECONOMIC BOTANY LABORATORY (2) **(W)**
Laboratory to accompany BSC 462.

BSC 480 – PROJECT LABORATORY (3-8) **(F,W,S,SS)**
Independent laboratory study in a project or projects of the student's choice. Registration by consultation with instructor. May be repeated for credit.

BSC 489 – CURRENT TOPICS IN BIOLOGY (5)
Lecture and discussions dealing with current problems of major significance in Biology.

BSC 490 – INDEPENDENT STUDY AND SEMINAR (5)
Independent library projects and written reports. Reports may be presented orally in Department Seminar.

BSC 491 – HONORS THESIS (5-10)
Independent research project to satisfy the Honors requirement. Registration by admission to the program.

BSC 504 – CELL PHYSIOLOGY AND BIOPHYSICS (5)
Fundamental biophysical properties of membranes; transport of water and solutes across biological membranes; passive and active electrical phenomena in membrane systems. Biochemistry and biophysics of contractile mechanism. Transfer of information from cell to cell. Bioluminescence. Effects of radiation of macromolecules. Prerequisites: BSC 301, 302; CHE 311 or CHE 321 and 322.

BSC 507 – BIOCHEMISTRY I (6)
Chemical reactions and macromolecular properties of proteins, nucleic acids and polysaccharides. Genetic and evolutionary aspects of protein structure. Lecture and conference and laboratory.

BSC 508 – BIOCHEMISTRY II (6)
Comparative biochemistry: metabolism and regulation of metabolism in microorganisms, plants and animals, mechanisms of enzyme reactions. Lecture, conference and laboratory.

BSC 541 – CELL BIOLOGY (5)
Advanced topics in cell biology. Biochemistry, structure and function of cellular membranes and organelles. Prerequisite: BSC 302

BSC 542 – TOPICS IN DEVELOPMENTAL BIOLOGY (5)
Molecular and cellular mechanisms in the development of plants and animals.

BSC 545 – PHOTOBIOLOGY (5)
Study of basic photochemical mechanisms as they occur in molecular biological processes such as plant growth, animal vision and radiation damage.

BSC 545L – PHOTOBIOLOGY LABORATORY (2)
Laboratory to accompany BSC 545.

BSC 548 – NEUROBIOLOGY I (5)
Comparative neuroembryology, gross and microscopic neuroanatomy of invertebrates and vertebrates. Lecture, conference, and laboratory.

BSC 549 – ADVANCED NEUROBIOLOGY II (5)
Comparative neurophysiology, biophysical basis of action and resting potential, synaptic transmission. Neural coding, integration in sensory and motor systems. Neurophysiological basis of behaviour. Lecture, conference and laboratory.

BSC 560 – MARINE ECOLOGY (5)

Environmental variations in the oceans, characteristic organisms, and the nature of their adaptations. Shoreline, shallow, and deep water habitats. Primary productivity in the ocean and its relationship to physical processes and food chains. Field trips, laboratory, and lecture. Prerequisites: BSC 331 and 360

BSC 560L – MARINE ECOLOGY LABORATORY (2)

Laboratory to accompany BSC 560

BSC 583 – BIOLOGY FOR TEACHERS (5) **(S,SS)**

Survey of areas in biological sciences emphasized in K-12 education. Principally for continuing education programs. Course design in collaboration with practicing teachers in the Miami area. Topics vary, and the course may be repeated for credit.

BSC 585 – TEACHING EXPERIENCE (5) **(W,S,SS)**

Supervised lecture, conference and laboratory instruction. Student will develop a topic for presentation in a departmental course at the 300 and 400 level. Registration by consent of instructor.

BSC 590 – SENIOR-GRADUATE SEMINAR (2)

Oral presentation of an assigned literature survey by senior and graduate students. Required of candidates in the proposed Honors Program. Registration by letter grade for oral presentation or credit/no credit option by participation and submission of written report.

BSC 601 – ENZYME CHEMISTRY (5)

Physical and chemical properties of enzymes. Review of modern analytical technique in measurement of enzymatic reactions. Discussion of selected enzyme systems.

BSC 604 – BIOPHYSICS (5)

Enzyme kinetics; behaviour of macromolecules in solutions. Interaction of macromolecules with small molecules, aggregation and self assembly of subunits. Lecture, conference, laboratory and computer laboratory.

BSC 611 – BIOLOGY OF VIRUSES (5)

Advanced treatment of the molecular biology of viral replication and the effect of viral infection on the host cell. Consideration of the role of viruses in mammalian carcinogenesis will be included.

BSC 620 – TOPICS IN TROPICAL PLANT SCIENCE (5) **(SS)**

Survey of living materials of at least 50 major tropical plant families. Developmental studies using tropical plant materials are reviewed from both physiological and morphological viewpoints. In addition to lectures in economic botany, field studies of tropical fruit and

spice trees are carried out. At least four major tropical ecosystems are analyzed and examined in the field.

BSC 620L – TOPICS IN TROPICAL PLANT SCIENCE LABORATORY (2)
Laboratory to accompany BSC 620.

BSC 630 – PHYSIOLOGY AND BIOCHEMISTRY OF INSECTS (5)
Topics in functional specialization and development in insects.

BSC 641 – DEVELOPMENTAL BIOLOGY (5)
Selected topics in areas of current developmental research.

BSC 643 – NEUROEMBRYOLOGY (5)
Induction, proliferation, migration, differentiation, determination of nerve pathways, specificity, nerve growth factor, degeneration and regeneration in the vertebrate nervous system.

BSC 647 – COMPARATIVE ELECTROPHYSIOLOGY OF CELLS (5)
Electrophysiological properties of excitable cells with emphasis on different invertebrate and vertebrate models for electrophysiological studies.

BSC 648 – NEUROMUSCULAR BASIS OF BEHAVIOR (5)
Mechanisms which control and underlie behavior in invertebrates and vertebrates, with emphasis on neural control of behavior.

BSC 649 – SENSORY PHYSIOLOGY (5)
Integration mechanisms by the central nervous system and by endocrines, as they affect behaviour. Lecture, conferences, and reports.

BSC 661 – ADVANCED ECOLOGY (5)
Advanced aspects of ecology. Topics offered may vary in succeeding quarters. Conference, field work, laboratory and computer laboratory. May be repeated for credit.

BSC 663 – EVOLUTION (5)
Evolution of living matter from simple organic compounds. Lecture, conferences and reports.

BSC 665 – PLANT PHYSIOLOGY AND BIOCHEMISTRY (5) (W)
Advanced topics emphasizing on transport, plant hormones, tropisms and photosynthesis. Lecture conference and laboratory.

BSC 680 – PROJECT LABORATORY (5) (F,W,S,SS)
As BSC 380.

BSC 686 – COMPUTER APPLICATIONS TO BIOLOGY (5)
Advanced computer programming in biological sciences. Modeling of biological systems of varying complexity.

BSC 690 – SEMINAR IN BIOLOGICAL SCIENCES (5) **(F,W,S,SS)**
Seminars presented by graduate students in specialized areas of biological sciences. Course provides opportunities for students to gain experience in extraction, evaluation and oral presentation of information from the biological literature. May be repeated for credit.

CHEMISTRY MAJORS

Bachelor of Arts

The program outlined below for the degree of Bachelor of Arts in Chemistry is designed for those students preparing for careers in medicine, dentistry, environmental studies, veterinary medicine, and secondary science education. This program includes a solid background in chemistry while allowing ample opportunity for elective courses.

LOWER DIVISION PREPARATION:

Required Courses:
General Chemistry (one year)
Algebra and Trigonometry
General Biology (one year)

Required Courses which may be taken at Florida International:
MAS 301-302-303, Differential and Integral Calculas
CHE 301-302, Organic Chemistry I, II
PHY 301-302-303, General Physics

UPPER DIVISION PROGRAM:

CHE 403, Organic Chemistry III	5 quarter hours
CHE 427, Organic Structure Determination	2 quarter hours
or	
CHE 428, Research Techniques in Organic Chemistry	2 quarter hours
CHE 311, Physical Chemistry for Life Sciences	7 quarter hours
CHE 312, Quantitative Analysis	5 quarter hours
One additional chemistry course	5 quarter hours

Bachelor of Science

The program outlined below for the degree of Bachelor of Science in Chemistry is constructed along guidelines published by the American Chemical Society (ACS) and would thus constitute an ACS accredited program. It would prepare the student for graduate work or a professional career as a chemist in industry, government service or secondary school teaching.

LOWER DIVISION PREPARATION:

Required Courses:
General Chemistry (one year)
Algebra and Trigonometry

Required Courses which may be taken at Florida International:
MAS 301-302, Differential and Integral Calculus
CHE 301-302, Organic Chemistry I, II
PHY 301-302-303, General Physics

UPPER DIVISION PROGRAM:

Required Chemistry Courses:

CHE 403, Organic Chemistry III	5 quarter hours
CHE 427, Organic Structure Determination	2 quarter hours
or	
CHE 428, Research Techniques in Organic Chemistry	2 quarter hours
CHE 321, Physical Chemistry I, II, III Thermodynamics	5 quarter hours
CHE 322, Equilibrium and Properties of Solutions	5 quarter hours
CHE 323, Quantum Mechanics and Quantum Chemistry	5 quarter hours
CHE 325, Physical Chemistry Laboratory	5 quarter hours
CHE 312, Quantitative Analysis	5 quarter hours
CHE 412, Modern Analytical Chemistry	7 quarter hours
CHE 431, Inorganic Chemistry	5 quarter hours
Senior Seminar and/or Independent Study	5 quarter hours
One additional senior-level chemistry course	5 quarter hours

Other Required Courses:

MAS 325, Differential Equations	5 quarter hours
or	
MAS 425, Math Methods in the Physical Sciences	5 quarter hours

CHEMISTRY

CHE 301 – ORGANIC CHEMISTRY I (7) **(F,S)**
An introduction to chemical bonding and atomic structure theory as it pertains to the chemistry of carbon compounds. Correlation between structure and reactivity of organic molecules followed by a systematic look at the various reaction types using reaction mechanisms as a tool for study. Laboratory will provide an introduction to the basic tools and techniques of the organic chemist.

CHE 302 – ORGANIC CHEMISTRY II (7) **(W,SS)**
Continuation of CHE 301. Laboratory includes synthesis and qualitative analysis of organic compounds.

CHE 305-307 – CONTEMPORARY CHEMISTRY I-II (7,7) (F-W,S-SS)

Fundamental principles of modern chemistry: atomic structure, stoichiometry, chemical bonding, states of matter, thermodynamics, solutions, kinetics, equilibrium, electrochemistry. This course is primarily designed for the student who feels that his background in general chemistry is somewhat weak and who would like to go on to organic chemistry or more advanced biology courses. Familiarity with algebraic manipulations is required. (Lecture and Laboratory)

CHE 309 – SURVEY OF ORGANIC CHEMISTRY (7) (F)

A basic one-quarter survey course in organic chemistry for non-majors presenting a broad background in the reactions and structures of organic molecules. Does not fulfill requirements for chemistry, biology, or pre-med majors. Lecture and Laboratory.

CHE 311 – PHYSICAL CHEMISTRY FOR THE LIFE SCIENCES (7) (S)

Principles of Physical Chemistry with particular reference to the life sciences. Thermodynamics, equilibria, electrochemistry, and reaction kinetics. Students should have competence in calculus and general physics. (Lecture and Laboratory)

CHE 312 – QUANTITATIVE ANALYSIS (5) (W,S)

A lecture-laboratory course designed to introduce the fundamentals of classical methods of quantitative chemical analysis including gravimetric and volumetric techniques.

CHE 321/PHY 321 – PHYSICAL CHEMISTRY I – THERMODYNAMICS (5) (F,S)

Fundamental principles of thermodynamics; the first, second, and third laws, free energy, entropy, in addition to the chemical potential, phase rule and its applications, concepts of activation energy. The first in a three-quarter physical chemistry sequence. The student must have competence in general chemistry and in mathematics through Calculus I. (Lecture)

CHE 322 – PHYSICAL CHEMISTRY II – EQUILIBRIUM, KINETICS AND PROPERTIES OF SOLUTIONS (5) (W)

The second in the series of physical chemistry courses; equilibrium, the relationship of the equilibrium constant to the chemical potential, catalyzed reactions, colligative properties of solutions, osmotic pressure, dipole moments and conductivity. CHE 321 is advised as prerequisite. (Lecture)

CHE 323/PHY 420 – PHYSICAL CHEMISTRY III – QUANTUM MECHANICS (5) (S)

The third in the physical chemistry series: simple quantum mechanical calculations, solutions to the Schroedinger wave equation, simple harmonic oscillator, particle in a square well, the hydrogen atom, structure of atomic and molecular orbitals. Competence in

fundamental calculus, including second order differential equations, is required. (Lecture)

CHE 325 – PHYSICAL CHEMISTRY LABORATORY I (1) **(F)**
Equation of state and transport experiments taken concurrently with CHE 321.

CHE 326 – PHYSICAL CHEMISTRY LABORATORY II (2) **(W)**
Projects in thermochemistry, physical properties of solutions, and homogeneous equilibria. Taken concurrently with CHE 322.

CHE 327 – PHYSICAL CHEMISTRY LABORATORY III (2) **(S)**
Heterogeneous equilibria, reaction kinetics in solution; requires some knowledge of chemical reaction mechanisms in solution.

CHE 356/PHY 356 – INSTRUMENTATION AND DESIGN (5) **(F,W,S)**
In this course the student will work with an electronic patch kit and design such pieces of standard laboratory equipment as amplifiers, pH meters, recorders, and various regulating units. Comprehensive background in both general chemistry and general physics is advisable. (Laboratory)

CHE 403 – ORGANIC CHEMISTRY III (7) **(F,S)**
A look into specialized areas of organic chemistry including such topics as molecular rearrangements, photochemistry, pericyclic reactions, and heterocyclic chemistry, as well as more detailed examination of synthesis, etc. Should be accompanied by a laboratory (CHE 427 or CHE 428).

CHE 404 – BIO-ORGANIC CHEMISTRY (5) **(W)**
Chemistry of naturally-occurring organic compounds of biological importance. The relationship between organic chemistry and the chemical reactions which constitute the living organism.

CHE 405 – ADVANCED SPECTROSCOPY AND MOLECULAR STRUCTURE (5) **(W)**
Atomic structure, diatomic molecules, electronic structure, vibrational and rotational spectra, moments of inertia, dipole moments, the rotating harmonic oscillator, infra-red spectroscopy, near and far ultra-violet spectroscopy, nuclear magnetic resonance, and electron spin resonance spectroscopy. The student will work in the ultra-violet, visible, infra-red range, with atomic absorption and with fluorimetry.

CHE 406/PHY 411 – STATISTICAL MECHANICS (5) **(S)**
Principles of statistical mechanics, kinetic theory, energy distributions, statistical thermodynamics of ideal and real gases, chemical equilibrium. The student should be thoroughly conversant with thermodynamics and advanced calculus. (Lecture)

CHE 407 – KINETICS AND CATALYSIS (5) **(F)**
Theory of elementary reactions, activated complex theory; mechanisms of complex reactions. Competence in fundamental calculus, including differential equations is required. (Lecture)

CHE 412 – MODERN ANALYTICAL CHEMISTRY (7) **(S)**
A lecture-laboratory course designed to introduce modern methods of chemical analysis including colorimetry, spectroscopy, pH measurements, chromatography, atomic absorption, polarography. Specific instrumental techniques will be covered. Follows: CHE 312

CHE 421 – ORGANIC SYNTHESIS (5) **(F)**
Use of classical and modern reactions in the design and construction of complex organic molecules – including natural products. Some topics covered will be construction reactions, refunctionalization, stereochemistry and conformational analysis. Laboratory will be devoted to individual design and synthesis of assigned compounds. All modern laboratory equipment and methods will be employed.

CHE 424 – NATURAL PRODUCTS CHEMISTRY AND BIOSYNTHESIS (5) **(F)**
Studies of the chemical origins (biosynthesis), properties, and synthesis of the various classes of naturally occurring compounds: terpenes, steroids, alkaloids, acetogenins.

CHE 426 – PHYSICAL ORGANIC CHEMISTRY (5) **(S)**
A series of topics will be discussed including molecular orbital theory as it pertains to organic molecules, kinetic and thermodynamic approaches to the study of reaction mechanisms, quantitative approaches to conformational analysis, etc.

CHE 427 – ORGANIC STRUCTURE DETERMINATION (2) **(F,S)**
The qualitative analysis of organic compound using modern spectroscopic and chemical methods. (Laboratory)

CHE 428 – RESEARCH TECHNIQUES IN ORGANIC CHEMISTRY (2) **(F,S)**
Practical instruction in the more advanced manipulations and procedures of the modern organic laboratory. This course is designed to prepare a student for research in organic chemistry and is a prerequisite for independent study (CHE 491) in organic chemistry. (Laboratory)

CHE 431 – INORGANIC CHEMISTRY (5) **(F)**
Molecular structure of inorganic compounds, periodicity, introduction to nonaqueous solvents, ligand-field theory, organomettalic compounds. The student should have a good background in physical chemistry. (Laboratory)

CHE 432 – PHYSICAL INORGANIC CHEMISTRY (5) **(W)**
Continuation of CHE 431. Introduction to use of physical methods to determine structure of inorganic compounds. (Lecture)

CHE 436 – RADIOCHEMISTRY AND NUCLEAR CHEMISTRY (5) (S)
Nuclear reactions, nuclear structure and the nature of radioactivity, properties and use of radioactive isotopes, counting techniques, fission and fusion. Thermodynamics and properties of solutions are valuable precursors. (Lecture and Laboratory)

CHE 481 – SPECIAL TOPICS IN ORGANIC CHEMISTRY (5) (F)
An intensive examination of one or more areas selected by instructor and students.

CHE 483 – SPECIAL TOPICS IN PHYSICAL CHEMISTRY (5) (W)
An intensive examination of one or more areas selected by instructor and students.

CHE 485 – SPECIAL TOPICS IN INORGANIC CHEMISTRY (5) (S)
An intensive examination of one or more areas selected by instructor and students.

CHE 491-492-493 – RESEARCH AND INDEPENDENT STUDY IN CHEMISTRY (5, 5, 5) (F,W,S,SS)
At any time the student chooses, from the beginning of his junior year on, he may work with a professor in a research area. The student should have a good grounding in general chemistry and preferably in organic chemistry and physics as well. He is encouraged to talk to a number of professors in the department and select that area with which he is most comfortable. It is anticipated that several actual publications will result. Variable credit with a maximum of 15 credits.

CHE 495 – SENIOR SEMINAR (3) (F,W,S)
During the senior year, the student will present a total of two topics, prepared from current journal articles in the field of chemistry, to other chemistry major students, environmental science students, chemistry and other science faculty.

CHE 581 – SPECIAL TOPICS IN ORGANIC CHEMISTRY (5) (F)
An intensive examination of one or more areas selected by instructor and students.

CHE 583 – SPECIAL TOPICS IN PHYSICAL CHEMISTRY (5) (W)
An intensive examination of one or more areas selected by instructor and students.

CHE 585 – SPECIAL TOPICS IN INORGANIC CHEMISTRY (5) (S)
An intensive examination of one or more areas selected by instructor and students.

COMPUTER SCIENCE MAJORS

LOWER DIVISION PREPARATION:

Required Courses:
Computer Programming in assembly language and some high level language

Recommended Courses:
College Algebra

Remarks: Unless a student has a basic education in Computer Science as demonstrated by experience or by coursework, he will be required to take Introduction to Computers I and II and Introduction to Data Processing and COBOC at Florida International University.

UPPER DIVISION PROGRAM:

Required Courses:
Programming – MAS 311, MAS 312 and MAS 315
(unless taken previously)
Calculus – MAS 321 or MAS 301-302
Statistics – MAS 322 or MAS 335 or MAS 331-332
Discrete Mathematics – MAS 375

Remarks: The student must complete an additional 30 hours of coursework in his major area. Normally these will be in Computer Science courses, although related courses in other schools and departments may be accepted by permission. All other courses necessary to complete the 90 quarter hour requirement are free electives.

NOTE: Computer Science courses are listed under Mathematical Sciences.

ENVIRONMENTAL STUDIES MAJORS

The program is designed to train **both** scientists with environmental awareness who are able to work in areas dealing with the natural environment and environmentalists in fields like political science, economics, sociology, and the humanities. The program leads to a B.S. or B.A. in Environmental Studies.

Since students enter this program with a wide variety of backgrounds and interests, the program is designed with a "science track" (B.S.) and a "non-science track" (B.A.). The curriculum is divided roughly into a 40-quarter-hour "core" and a 50-quarter-hours of electives. The student uses his elective hours in whatever area of specialization interests him within the broad area of Environmental Studies.

Any student with an A.A. degree or equivalent is adequately prepared to enter the program. Students with an A.S. degree will probably wish to pursue programs in the School of Technology, but may also be prepared to enter this program, and should consult an adviser.

B.S. IN ENVIRONMENTAL STUDIES

LOWER DIVISION PREPARATION

Recommended Courses:

College Algebra
Conservation of Natural Resources
General Biology
General Chemistry
Man and Environment
Natural History of South Florida
Physical Geology

Recommended courses which may be taken in the lower division or at Florida International:

MAS 301-302—Calculus—
Except for environmental biology
ECO 301—Economics, Man, and Society
PHY 301-303 or PHY 305-307—Physics
POS 301 or 321—The Legislative Process

UPPER DIVISION PREPARATION:

The following 40-hour core is required of all students in the program.

BSC 360 — General Ecology
ECO 319 — Introduction to Environmental Economics
EVR 401-402 — Environmental Problems
MAS 398 — Environmental Mathematics
POS 439 — Environmental Politics and Policy
EVR 491 — Independent Study

Electives — At least one required

Students may then elect one of the following concentrations, which include these additional courses:

1. **Air Quality Concentration:**

CHE 312	Quantitative Analysis	5 credits
CHE 301-302	Organic Chemistry	14 credits
EVR 431	Air Resources	5 credits
EVR 412	Meteorology	5 credits

Electives:

CHE 356	Instrumentation	EVR 441	Energy Resources
CHE 412	Modern Analytical Chemistry	CHE 321	Thermodynamics
CHE 311	Physical Chemistry for Life Sciences		

2. **Water Quality Concentration:**

CHE 312	Quantitative Analysis	5 credits
CHE 311	Physical Chemistry for Life	5 credits
EVR 421	Water Resources Sciences	5 credits
Aquatic Biology (BSC)		10 credits
GEO 453	Geochemistry	5 credits

Electives:

CHE 356	Instrumental Analysis	
CHE 412	Modern Analytical Chemistry	
GEO 325	Sedimentology	
PHY 430	Fluid Mechanics	

3. **Energy & Resource Concentration:**

PHY 301-303	Physics with Calculus (if not completed in the lower division)	15 credits
CHE 321	Thermodynamics	5 credits
	or	
CHE 311	Physical Chemistry for Life Sciences	5 credits
PHY 351	Earth Physics	5 credits
EVR 441	Energy Resources	5 credits
GEO 409	Man's Mineral Resources	5 credits

Electives:

EVR 431	Air Resources
GEO 312	Mineralogy
EVR 421	Water Resources
GEO 451	Geochemistry
CHE 436	Nuclear Chemistry

4. **Bio-Ecology Concentration:**

BSC 320	Topics in Tropical Botany	5 credits
EVR 421	Water Resources	5 credits
BSC 331	Invertebrates	5 credits
BSC 332	General Entomology	5 credits
BSC 333	General Ichthyology	5 credits
GEO 301	Environmental Geology	5 credits

Electives:

BSC 365	Introduction to Plant Physiology
BSC 334	Amphibians & Reptiles
BSC 335	Birds & Mammals

5. **General Environmental Science:**

EVR 431	Air Resources	5 credits
EVR 441	Energy Resources	5 credits
EVR 421	Water Resources	5 credits
GEO 409	Man's Mineral Resources	5 credits
CHE 312	Quantitative Analysis	5 credits

The elective course may be any of those courses in the other concentrations.

B.A. IN ENVIRONMENTAL STUDIES

LOWER DIVISION PREPARATION

Recommended Courses:
Natural History of South Florida

Conservation of Natural Resources
Man and Environment
College Algebra (for economics concentration only)

Recommended Courses Which May be Taken in the Lower Division or at Florida International:

POS 306—The Legislative Process
ECO 301—Economics, Man, and Society

UPPER DIVISION PROGRAM:

The following 35-hour core is required by all Environmental Studies B.A. majors:

BSC 360	General Ecology
ECO 319	Introduction to Environmental Economics
EVR 301-303	Environmental Science
MAS 398	Environmental Mathematics
POS 439	Environmental Politics and Policy
EVR 491	Independent Study

Electives — At least one required

Students may then elect one of the following concentrations, which include these additional courses:

1. **Economics Concentration**

ECO 301	Theory of Price	5 credits
ECO 320	Intro to Urban Economics	5 credits
ECO 321	Regional Economics	5 credits
ECO 421	Land and Resource Economics	5 credits

Electives:

ECO 416	Economic Development of the U.S.
ECO 517	Economics of Transportation
ECO 520	Urban and Regional Economics
ECO 525	Public Finance
GEO 409	Man's Mineral Resources
POS 421	Government and Politics of the U.S.
EVR 441	Energy Resources

2. **Policy Concentration:**

POS 421	Government and Politics of the U.S.	5 credits
POS 314	Politics of Public Bureaucracy	5 credits
POS 323	Urban Politics	5 credits
POS 331	The Judicial Process	5 credits
POS 348	International Organization	5 credits

Electives:

POS 306	Dynamics of International Politics
POS 411	The Presidency
ECO 416	Economic Development of the U.S.

GEO 409 Man's Mineral Resources
ECO 421 Land & Resource Economics

ENVIRONMENTAL STUDIES

EVR 301 – ENVIRONMENTAL SCIENCE I (5) **(F,W,S)**
A course for non-science majors offering fundamental principles of chemistry, physics and biology in an environmental framework. The purpose is to increase scientific literacy and environmental awareness of non-scientists. No particular preparation required. Recommended for all elementary and non-science secondary school teachers. The course provides enough science background so the student may take further courses in chemistry or biology.

EVR 302 – ENVIRONMENTAL SCIENCE II (5) **(F,W,S)**
Continuation of EVR 301.

EVR 303 – ENVIRONMENTAL SCIENCE: SPECIAL PROBLEMS (5) **(W,S,SS)**
Continuation of EVR 302, and discussion of some especially significant environmental problems.

EVR 401 – ENVIRONMENTAL PROBLEMS I (5) **(W)**
An in-depth study of four or five environmental problems of current interest and continuing significance. The course requires competency at the college introductory level in at least three of the following: biology, chemistry, geology, physics.

EVR 402 – ENVIRONMENTAL PROBLEMS II (5) **(S)**
A continuation of EVR 401.

EVR 412 – METEOROLOGY (5) **(S)**
The earth's atmosphere and its physical properties. General circulation and thermal structure of the atmosphere on a global and local scale. Physics and dynamics of clouds. Weather systems including temperate and tropical storms, air masses and seasonal variations. Competence in physics and calculus is required.

EVR 421 – WATER RESOURCES (5)
A seminar dealing with various aspects of water use, water pollution problems, chemistry and ecology of South Florida's waters. A thorough background in fundamental chemistry, biology and ecology is recommended.

EVR 431 – AIR RESOURCES (5)
Common air pollutants and their sources and methods of control. Different legislative and administrative approaches will be studied.

EVR 441 – ENERGY RESOURCES (5)
Seminar dealing with power and energy production in modern

society, fundamental energy relationships of industrial and domestic processes.

EVR 312 – TOPICS IN ENVIRONMENTAL STUDIES (5)
An intensive analysis of several current environmental topics. Recommended for primary and secondary school teachers.

EVR 581 – SPECIAL TOPICS (5) **(W)**
A graduate-level course dealing with selected environmental topics. The content will not necessarily be the same each time the course is offered.

GEOLOGY MAJORS

A student entering the geology program for a Bachelor of Science in Geology is expected to complete the following requirements:

LOWER DIVISION PREPARATION (For B.S. in Geology):

Required Courses:
General Biology
Physical Geology
Historical Geology

Required courses which may be taken at Florida International:
Mathematics (Calculus I and II)
General Physics (PHY 301-303 or 305-306)
Chemistry (CHE 305-307)

UPPER DIVISION PROGRAM:

Forty-five quarter hours in geology, including geologic mapping, among which a minimum of 20 quarter hours must be taken among the following courses:

GEO 312—Mineralogy	5 quarter hours
GEO 313—Optical Mineralogy	5 quarter hours
GEO 442—Igneous and Metamorphic Petrology	5 quarter hours
GEO 321—Sedimentology	5 quarter hours
GEO 412—Geophysics	5 quarter hours
GEO 461—Paleontology-Micropaleontology	5 quarter hours
GEO 411—Structural Geology	5 quarter hours

Remarks: The student elects the option in which he wishes to concentrate and complete the 25 remaining required credits. In addition to classic topics, the student may elect environmental science. The student should consult with his advisor to make sure that his proposed program meets the science requirements of his option.

Interdisciplinary aspects of modern studies of the earth are emphasized by encouraging a geology major to choose his minor in other science courses tailored to his particular professional goals.

GEOLOGY

GEO 301-302 – ENVIRONMENTAL GEOLOGY (5) **(F)**

An introductory course for non-majors and those desiring a cultural understanding of earth science. An investigation of geological aspects affecting man and his environment. Emphasis is placed upon practical aspects of geological phenomena affecting man's daily life. The origin of volcanoes, causes of earthquakes, winds, tides, climates, work of rivers, wave actions with attention to coastal erosion and man's impact on these natural processes. Case study in Southern Florida and the Caribbean. Socioeconomic impact of geologic factors.

GEO 311 – GEOGRAPHY (5) **(SS)**

Man's landform environments and the interacting processes responsible for these features. Natural evolution of landforms. Environmental modifications and deteriorations caused by human settlements. Disturbances of natural equilibria and their socio-economic impacts. Urban ecology and its geographic problems. Case study in Florida, Laboratory work includes map interpretation of major geographic regions. Climatic influences on landforms, soil, vegetation and patterns of agro-industrial society.

GEO 312 – MINERALOGY (5) **(F)**

Physical properties and origin of the most common minerals and the techniques of mineral identification and study, including principles of symmetry, internal structure of crystals, bonding and external form. A considerable part of the time is devoted to laboratory study of minerals.

GEO 313 – OPTICAL MINERALOGY (5) **(W)**

Analytical method for the study of optical properties of minerals including the polarizing microscope and x-ray diffraction (both powder and single crystal methods) and x-ray fluorescence. Prerequisite: GEO 312.

GEO 321 – SEDIMENTOLOGY (5) **(F)**

The nature of sediment transport with emphasis on nearshore environment. Sedimentary processes in recent environment and their past equivalent. Southern Florida as case study. Role of waves, tides and oceanic currents in shaping the coastal environment. Quaternary history and development of shoreline in Southern Florida and the Caribbean. Man's effects (physical, biological and chemical) on the

coastal environment. Laboratory studies include techniques of sediment analyses. Comparative study. Recommended: GEO 312, General Chemistry or equivalent.

GEO 331 – OCEANOGRAPHY (5) **(F)**

The ocean as an environment. Basic oceanic circulation pattern, physiochemical properties of the water masses. Sea-air interaction influence on the ocean structure. Impact of oceanic circulation on man's environment and economy. Estuaries, coastal oceans, marine ecosystem and productivity. Recommended: Physical Geology or equivalent.

GEO 332 – SUBMARINE GEOLOGY (5) **(F)**

Morphology of the ocean floor, crustal structure. Modern theories concerning the evolution of the crust, continental drift, sea-floor spreading. Distribution and thickness of deep-sea sediments and their relationship to the morphology and evolution of the crust. Deep-sea mineral resources. Influence of the distribution of continental masses and morphology of the ocean floor on oceanic circulation. Case study of Floridian and North American continental margins. Recommended: Physical Geology or equivalent. GEO 301 or 302 is suggested.

GEO 401 – APPLIED ENVIRONMENTAL GEOLOGY (5) **(W)**

The geological environment and its impact on human activities. Development of cities and their relationship to the geological substratum. Construction problems, sewers, waste waters, dams, ground water, terrain evaluation. Consequences of population growth and increasing utilization of non-renewable resources. Student debates. Individual case studies with emphasis on the future with consideration for environmental assets of geologic factors in Southern Florida. Physical Geology or equivalent, GEO 301 or 302.

GEO 409 – MAN'S NATURAL MINERAL RESOURCES (5) **(W)**

Distribution and formation of non-renewable mineral resources. Geological environment of mineral deposit and their structural control. Exploration, detection and exploitation. Socio-economic impacts. Natural limitations of mineral resources in the earth's crust. Laboratory work includes the study and interpretation of geologic maps bearing on mineral deposits.

GEO 411 – STRUCTURAL GEOLOGY (5) **(F,S)**

The study and analysis of geologic deformation. Recognition and interpretation of geologic structures. Mechanics of deformable bodies, fracture, faulting, brittle-ductile transition in rocks, flow and flooding elasticity and inelasticity of rocks and minerals. Laboratory works include the study and interpretation of geologic structures on geologic and topographic maps and air photography. Prerequisite: Physical Geology. GEO 301 or GEO 302 suggested.

GEO 412 – GEOPHYSICS (5) **(F)**

Methods of measurement of the physical properties of the earth: seismic (elastic, inelastic), magnetic, electrical, thermal and gravitational. The implications of the results in terms of earth's structure, composition, evolution and present state. Some consideration of lunar and planetary physics. Prerequisite: Calculus, Physics and Physical Geology.

GEO 419 – NATURAL RESOURCES SEMINAR (5) **(S)**

Topics variable, including the nature of various extractive industrial minerals with particular emphasis on their socio-economic impacts, world-wide and local. Students may expect to investigate one or more of the economically valuable mineral resources as to amounts available, geological limits on supply, patterns of use and possible substitutes. Recommended: GEO 301 or 302, GEO 332 and GEO 409.

GEO 431 – INTRODUCTION TO PETROLOGY (5) **(W)**

Classification and genetic processes of igneous, sedimentary and metamorphic rocks. Study of major rock groups in hand specimens and thin sections under the polarizing microscope. Prerequisite: GEO 312 and GEO 313. GEO 321 recommended.

GEO 441 – SEDIMENTARY PETROLOGY (5)

Classification and genesis of sedimentary rocks. Macroscopic and microscopic structures and textures. Study of the major types from hand specimens and in thin sections or peels under the microscope. Coloration techniques. Heavy mineral separation techniques and methods of study. Laboratory studies emphasize the different methods of analysis and interpretation of characters shown in hand specimens and thin sections. Prerequisite: GEO 321, GEO 312. GEO 313 and 431 recommended.

GEO 442 – IGNEOUS AND METAMORPHIC PETROLOGY (5) **(S)**

Study of the most common igneous and metamorphic rocks in both hand specimens and thin sections. Analysis of rock fabric, texture and internal structure as related to their genesis. Classification. A considerable part of the time is devoted to laboratory study of rock specimens under the petrographic microscope. Prerequisite: GEO 312 and GEO 313.

GEO 451 – GEOCHEMISTRY (5) **(W)**

Origin of the chemical elements of common rock-forming minerals. Processes responsible for the chemical composition of the solar system with particular attention to the earth. Geochemical cycles and interaction atmosphere-hydrosphere on the earth's crust. Crystal chemistry. Recommended: Elementary physics and chemistry; physical geology, thermodynamics.

GEO 461 – PALEONTOLOGY MICROPALEONTOLOGY (5)

The development of life as traced through the fossil record. Survey of the main groups of invertebrate animals commonly found as fossils. Theories of evolution and extinction. Case study of some calcarous microfossils (planktonic foraminifera) and siliceous microfossils (Radiolaria). Their use as biostratigraphic and paleoecologic indicators. Economic importance. Prerequisite: Physical Geology, Historical Geology, Elementary Biology, or the instructor's permission.

GEO 462 – DEEP-SEA SEDIMENTOLOGY (5) **(S)**

Origin, distribution, physical properties and stratigraphy of deep-sea sediments in the world ocean. Facies analyses, Comparative study. The pleistocene as case study. Analytical methods for studying and interpreting various deep-sea facies of the past.

GEO 481 – GEOLOGIC MAPPING (2-5) **(F,W,S,SS)**

Techniques of geological mapping. Methods of surveying. Use of plane table, topographic maps and air photographs. Prerequisite: Physical and Historical Geology, and GEO 411.

GEO 491-492 – INDEPENDENT STUDY (5-10) **(F,W,S,SS)**

Individual research in the student's field of specialization or interest. Subject may deal either with laboratory, field or bibliographical work not exceeding an equivalent of 10 quarter credit hours. Prerequisite: Permission of the student's adviser.

GEO 561 – STRATIGRAPHIC MICROPALEONTOLOGY (5) **(S)**

Study of the main groups of planktonic foraminifera and Radiolaria used as biostratigraphic markers from Cretaceous to Recent. Comparison of biostratigraphic zonation commonly used for these two groups. Paleobiogeographic and paleoecologic considerations. Comparative study with recent assemblages and their ecologic significance. Effects of environmental changes on the planktonic assemblages, case study of Pleistocene climatic fluctuations. Laboratory work includes various techniques for preparing and studying microfossils from both unconsolidated and lithified sediments. Considerable amount of time will be devoted to the study and identification of specimens under the microscope. Prerequisite: GEO 461

MATHEMATICS MAJORS

LOWER DIVISION PREPARATION:

Required Courses:

Mathematics, including Analytic Geometry	16 semester hours

Recommended Courses:
Calculus I and II
Linear Algebra
Introductory Course in Computer Programming

UPPER DIVISION PROGRAM:

Required Courses:
Calculus – MAS 301-302 (unless taken prior to entry)
Programming – MAS 311 (unless taken prior to entry)
Applied Linear Algebra – MAS 345 (unless taken prior to entry)
Multivariable Calculus – MAS 303
Courses from required list. See Department.

The student must complete additional hours of coursework in the Mathematical Sciences department at course level MAS 313 or higher (except for MAS 321-322). Other courses necessary to complete the 90-quarter-hour requirement are free electives. Consult Department.

Remarks: The student whose interests lie more directly in the area of Computer Science should consult the Upper Division Program for Computer Science Majors.

The student whose interests lie more directly in the area of Statistics should consult the Upper Division Program for Statistics Majors.

MATHEMATICAL SCIENCES

MAS 300 – INTRODUCTION TO COMPUTER PROGRAMMING (3) **(F,W,S,SS)**
An introduction to the BASIC computer language and to the use of the interactive and batch facilities of the computer.

MAS 301-302 – CALCULUS I-II (5-5) **(F,W,S,SS)**
An introduction to the basic concepts, computations, and applications in the calculus. The first course deals with basic concepts, techniques and applications of the derivative and an introduction to the integral. The second course deals with integration techniques and applications of the integral, an introduction to multivariable calculus, infinite series, and Taylor series.

MAS 303 – MULTIVARIABLE CALCULUS (5) **(F,S)**
This course deals with the differential and integral calculus of real valued multivariable functions. The topics include directional and partial derivatives, gradients, and their applications; differential calculus of vector valued functions; multiple, iterated, line, and surface integrals; Green's and Stokes' Theorems. Prerequisite: MAS 302 (or equivalent).

MAS 304 – QUANTITATIVE METHODS FOR ADMINISTRATION I (5) **(F,W,S,SS)**

The use of statistical tools in management. Starting with an introduction to probability, the course provides an introduction to a wide range of statistical techniques used in management sciences. It includes descriptive statistics, statistical inference, testing of hypotheses, regression and correlation analyses, and special topics such as construction of index numbers and time series analysis.

The use of quantitative tools in management. Statistical methods, testing, and other quantitative applications to management are drawn together to provide tools for management efficiency.

MAS 305 (BUA 305) – QUANTITATIVE METHODS FOR ADMINISTRATION II (5) **(F,W,S,SS)**

Continuation of MAS 304.

MAS 306 – THE HISTORY OF MATHEMATICS (5) **(S)**

A survey of the development of mathematical ideas from primitive origins to the present. A knowledge of elementary algebra and analytic geometry will be assumed.

MAS 307 – INTRODUCTION TO STATISTICS (5) **(F,W,S,SS)**

A course in descriptive statistics treating topics in basic probability and distributions, point and interval estimation, testing hypothesis, linear regression and correlation.

MAS 308 – APPLIED OPTIMIZATION TECHNIQUES (5) **(S)**

Elementary exposition of the most common mathematical optimization techniques and their computer implementation. Includes a brief introduction to differential calculus. Topics will be selected from linear programming, queuing and inventory models, transportation networks.

MAS 309 – THE SIGNIFICANCE OF MATHEMATICS (5) **(W)**

A course for non-science majors directed toward students with little or no assumed background in mathematics. The objective is to convince the student that mathematics is fun, interesting and useful. Topics may include: logical reasoning, unsolved problems of arithmetic, probability and statistics, geometry, topology, computers.

MAS 310 – COMPUTERS AND SOCIETY (5) **(W,S)**

A course for the citizen who is interested in the effects of computers upon our society. The major focus will be upon social, political and ethical considerations: what computers are; how they work; applications, such as data banks, government uses, simulation; considerations such as privacy and the police state, the cashless society, computers and business, computers and the quality of life, systems analysis and the planned society. The course is oriented toward the non-scientist and requires no background in mathe-

matics, computer science, or social science. As part of the course, students will learn to write and run a simple computer program.

MAS 311 – INTRODUCTION TO COMPUTERS I (5) **(F,W,S,SS)**

A course in the fundamentals of digital computer programming. The concept of an algorithm; flow charting; programming; testing and debugging. Numerical and non-numerical techniques. The syntax and semantics of FORTRAN IV.

MAS 312 – INTRODUCTION TO COMPUTERS II (5) **(W,S,SS)**

Principles and techniques of digital computers, with emphasis on machine language and assembly language programming. Internal representation of numeric and non-numeric information; registers, indexing and computer structure; arithmetic, logical and input-output instructions; fixed and floating arithmetic. Prerequisite: MAS 311 or equivalent.

MAS 313 – ADVANCED PROGRAMMING LANGUAGE (5) **(F,S)**

Examination of higher level, procedure oriented programming languages such as ALGOL 60, SNOBOL 4 and APL with emphasis on such concepts as recursion, dynamic storage, allocation, parallel structure operations, string manipulation, block structure and others of special significance to contemporary and future programming languages and techniques. Prerequisite: lower division EDP major, MAS 312 or concurrent enrollment in MAS 317.

MAS 314 (COT 302) – COMPUTER HARDWARE FUNDAMENTALS (5) **(W,SS)**

This course concentrates on two major areas. The first considers computer number systems, logic gates and Boolean algebra. The second treats the arithmetic element, computer memories, input-output and computer organization. Emphasis is placed on the latter topics. Prerequisite: MAS 375; Corequisite: MAS 312.

MAS 315 – INTRODUCTION TO DATA PROCESSING AND COBOL (5) **(W,S)**

A second course in programming oriented toward data processing applications. Various techniques for organizing and processing files: Sequential random-access, indexed and inverted files. File sorting and maintenance. Program documentation. Instruction in the COBOL programming language. Applications of computers and data processing in business. Prerequisite: MAS 300 or MAS 311.

MAS 318 – GEOMETRY (5) **(S)**

A study of the basic structure of Euclidean Geometry together with topics from advanced Euclidean Geometry and non-Euclidean Geometry. Prerequisite: None.

MAS 321 – CALCULUS FOR MANAGEMENT AND SOCIAL SCIENCES (5) **(F,S)**

An elementary introduction to the basic notions of calculus that are used to study problems in the management and social sciences. Specific topics include: differential calculus and its application to optimization problems; integral calculus with area and probability applications. Prerequisite: MAS 304 or working knowledge of algebra.

MAS 322 – STATISTICS FOR MANAGEMENT AND SOCIAL SCIENCES (5) **(W,SS)**

Introduction to the basic notions of probability and statistics that are used to study problems in the management and social sciences. Topics include: basic probability, random variables, sampling, estimation, hypothesis testing. Prerequisite: MAS 321 or other calculus course.

MAS 325 – DIFFERENTIAL EQUATIONS (5) **(F,S,SS)**

An introduction to differential equations and their applications based upon a knowledge of the calculus. Topics to include initial value problems of the first order, numerical solutions, systems of differential equations, linear differential equations of the second order, Laplace transforms, series solutions. Prerequisite: MAS 302. Corequisite: MAS 300 or MAS 311.

MAS 331-332 – INTRODUCTION TO MATHEMATICAL STATISTICS I-II (5-5) **(F,W)**

This course presents an introduction to the mathematics underlying the concepts of statistical analysis. It is based on a solid grounding in probability theory, and requires a knowledge of single and multivariable calculus. Numerical aspects of the course using the computer and laboratory experience is an integral part of the course. Specific topics include the following: basic probability concepts, random variables, probability densities, expectations, moment generating functions, sampling distributions, decision theory, estimation, hypothesis testing (parametric and non-parametric), regression, analysis of variance, and design of experiments. Prerequisite: MAS 303.

MAS 335-336 – INTRODUCTION TO STATISTICAL ANALYSIS I-II (5-5) **(W,S)**

This course presents a wide range of statistical tools which are useful in the analysis of data. Stress is placed on where, when, and how these techniques are used. Computer and laboratory work is an integral part of the course. It is assumed that the student has had an introductory course in statistics or has had some exposure to calculus. Specific topics include: use of normal distribution, tests of

means, variances and proportions, the analysis of variance and covariance (including orthogonal contrasts, components of variance models and analysis of experiments), regression, correlation, probability plotting, sequential analysis, non-parametric statistics and transformation techniques. Prerequisite: First course in calculus or first course in statistics.

MAS 338 – STATISTICAL MODELS IN SCIENCE AND BUSINESS (5) **(S)**

This course is a specialized course in the use of statistical models to represent physical and social phenomena. The emphasis is on providing tools which will allow a researcher or analyst to gain some insight into phenomena being studied. An introductory knowledge of probability theory and random variables is assumed. Specific topics include: introduction to discrete and continuous probability distributions, transformation of variables, approximation of data by empirical distributions, central limit theorem, propagation of moments, Monte Carlo simulation, probability plotting, and testing distributional assumptions. Prerequisite: MAS 303 and first course in statistics.

MAS 345 – APPLIED LINEAR ALGEBRA (5) **(F,S,SS)**

An introduction to the topics in linear algebra most often used in applications. Topics include matrices and their applications, simultaneous linear equations and elementary operations, linear dependence, vector spaces, rank and inverses, inner products and "best" approximations, numerical solutions of simultaneous linear equations, eigenvalues and eigenvectors, iterative methods for calculating eigenvalues and systems of linear equations. Prerequisite: MAS 302 or MAS 321.

MAS 361-362 – MATHEMATICAL MODELS AND APPLICATIONS I-II (5-5) **(W,S)**

A course to provide an understanding of the use of the role of mathematical models in the description of the real world. In addition to considerating basic principles in philosophy of formal model building, specific models will be considered, such as Markov Chain models, models for linear optimization, models involving stochastic processes, graphs and models, models for growth processes, and ecological models. Evaluation of models and computer simulation will also be discussed. Prerequisite: MAS 302 or MAS 321 or equivalent.

MAS 365 – NUMERICAL ANALYSIS (5) **(F,S)**

Basic ideas and techniques of numerical analysis. Topics include finite differences, interpolation, solution of equations, numerical integration and differentiation, applications, introduction to applied linear algebra. This course will make extensive laboratory use of the computer facility. Prerequisite: MAS 300 or MAS 311 and MAS 302 or MAS 321.

MAS 375 – DISCRETE MATHEMATICS (F,W,S,SS)

An introduction to abstract mathematical structures with special emphasis on theories and methods which are relevant to the study of computer science. Topics include: introduction to formal systems and techniques of proof; combinatorial vs. relational structures; groups and graphs; Boolean algebras; abstract languages and machines. Prerequisite: MAS 311.

MAS 395 – INDEPENDENT STUDY (1-5) (F,W,S,SS)

Individual conferences, assigned reading, reports on independent investigations.

MAS 398 – SPECIAL TOPICS (1-5) (F,W,S,SS)

A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

MAS 401-402 – FOUNDATIONS OF MATHEMATICS I-II (W,S)

An integrated course designed for teachers of Elementary and Early Junior High students. Emphasis will be placed on inductive and rudimentary deductive approaches to number systems, algebra, geometry, probability, statistics, and mathematical systems. The relationship between these fields and their applications will be stressed. Intuitive aspects of synthetic, analytic and transformation geometry will serve to relate geometry, algebra and mathematical systems. Prerequisite: None.

MAS 405 – MATHEMATICAL LOGIC (5) (S)

A study of formal logical systems and their applications to the foundations of mathematics. Topics to be selected from the following: definition of mathematical proofs; set theory; analysis formalized with the predicate calculus; theorems of Godel and Church; recursive function theory, and idealized digital computers.

MAS 415 – OPERATING SYSTEMS PRINCIPLES (5) (S)

A study of the basic principles of modern mutli-programming and time-sharing systems. Interrupts and data channels, multiprocessor system, memory management, virtual memory, segmentation, process communication, deadlock and interlock handling. Prerequisite: MAS 314.

MAS 416 – DATA COMMUNICATIONS (5) (S)

Study of communications-based systems, common carrier facilities, tariffs, and related equipment. Analysis and design of communications networks utilizing various techniques. Uses of communications for data collection, remote computing, message switching. Prerequisite: MAS 314.

MAS 417 – MINICOMPUTER ARCHITECTURE AND APPLICATIONS (5) (W,SS)

An introduction to minicomputers, in which students will have

direct access to a general purpose minicomputer system. Study of the architecture of a particular minicomputer (including hands-on experience) followed by a comparision study of other minicomputer systems. Selected minicomputer applications in business, industry and science. Prerequisite: MAS 312 (or equivalent) and MAS 314.

MAS 425 – MATHEMATICAL METHODS IN THE PHYSICAL SCIENCES (5) **(F,S)**

A study of those topics in mathematics most often used in applications in the physical sciences. A prerequisite knowledge of ordinary differential equations is required. Topics to be discussed include the following: solutions to ordinary differential equations about singular points; Fourier Analysis, Sturm-Liouville Problems; Bessel Functions; Legendre Polynomials; boundary value problems; Laplace equations; applications to problems in the physical sciences. Prerequisite: MAS 325 or equivalent.

MAS 435 – STATISTICAL QUALITY CONTROL (5) **(W,SS)**

This course presents the simple but powerful statistical techniques employed by industry to improve product quality and to reduce the cost of scrap. The course includes the use and construction of control charts (means, percentages, number defectives, ranges) and acceptance sampling plans (single and double). Standard sampling techniques such as MIL STD plans will be reviewed. Prerequisite: None.

MAS 465 – TOPOLOGY (5) **(F,S)**

An introductory course in topology requiring a prerequisite knowledge of the calculus. Topics to be discussed will be selected from the following: topological spaces, metric spaces, continuity, completeness, compactness, separation axioms, products spaces, subspaces, convergence, and homotopy theory. Prerequisite: MAS 303.

MAS 471-472 – MATHEMATICAL TECHNIQUES OF OPERATIONS RESEARCH I-II (5-5) **(S,SS)**

An introduction to those topics in mathematics associated with studies in operations research. Topics include the following: linear programming and related topics, dynamic programming, queuing theory, computer simulation, network analysis, inventory theory, decision theory, integer programming. Prerequisite: MAS 345 and MAS 322 or MAS 332.

MAS 475 – THEORY OF COMPUTATIONS **(S)**

An introduction to abstract machine theory, combinatorial systems, and computable functions. Topics include: finite-state machines, regular sets, Turing machines, the halting problem, phrase-structure grammars and languages, and Post's correspondence problem. Emphasis is on surveying basic topics and developing an intuitive understanding of the theory of computation. Prerequisite: MAS 375.

MAS 495 – INDEPENDENT STUDY (1-5) **(F,W,S,SS)**

Individual conferences, assigned readings, reports on independent investigations.

MAS 498 – SPECIAL TOPICS (1-5) **(F,W,S,SS)**

A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

MAS 515 – DATA STRUCTURES (5) **(F)**

Basic concepts of data organization and associated techniques. Arrays, stacks, singly and multiply linked lists, binary and n-ary trees, graphs. Both internal and external storage structures. Accessing, searching and sorting. Recursive and non-recursive processing. Dynamic allocation and garbage collection. Prerequisite: MAS 313.

MAS 516 – INFORMATION SYSTEMS ANALYSIS AND DESIGN (5) **(W)**

The fundamental techniques for the analysis and design of information systems are provided in this course. Included are data base design, file organization, sorting techniques, and systems for systems analysis and design. Prerequisite: MAS 314 and MAS 515.

MAS 517 – COMPUTER GRAPHICS (5) **(S)**

The principles and techniques of interactive computer graphics. Characteristics of graphical devices, representation and manipulation of graphical data, light pens and other graphical input devices, data structures for interactive graphics, graphical languages, applications of computer graphics. Prerequisite: MAS 314 and 321. Corequisite: MAS 515.

MAS 518 – PROGRAMMING SYSTEMS (5) **(W)**

Assemblers, loaders, MACRO systems, basic techniques of compilation, self-compilers, syntax encoding and recognition, code generation and optimization. Prerequisite: MAS 515 and MAS 415.

MAS 521-522 – PROBABILITY THEORY I-II (5-5) **(F,W)**

This course is designed to acquaint the student with the basic fundamentals of probability theory. It reviews the basic foundations of probability theory covering such topics as discrete probability spaces, random walk, Markov Chains (transition matrix and ergodic properties), strong laws of probability, convergence theorems and law of the iterated logarithm. Prerequisite: MAS 303.

MAS 523 – STOCHASTIC PROCESSES (5) **(S)**

This course is intended to provide the student with the basic concepts of stochastic processes, and the use of such techniques in the analysis of systems. Subjects include Markov Processes, queuing theory, renewal processes, birth and death processes, Poisson and Normal Processes. Applications to system reliability analysis,

behavior science and natural sciences will be stressed. Prerequisite: MAS 522.

MAS 531 – RELIABILITY ENGINEERING I (5) (S)

The course material is designed to give the student a basic understanding of the statistical and mathematical techniques which are used in engineering reliability analysis. A review will be made of the basic fundamental statistical techniques required. Subjects covered include: distributions used in reliability (exponential, binomial, extreme value, etc.), tests of hypotheses of failure rates, prediction of component reliability, system reliability prediction and reliability apportionment. Prerequisite: MAS 302 or MAS 321 and first course in statistics.

MAS 532 – RELIABILITY ENGINEERING II (5) (SS)

The course is designed for those interested in using probability models such as Markov matrices to analyze the reliability of systems. The use of transition matrices to represent the state of repairable and non-repairable systems will be stressed. Series and parallel constructed systems will be covered. Topics such as the reliability and availability of systems, average down time, required repairmen pool sizes, and number and composition of spare parts pools will be covered. Prerequisite: MAS 345 and MAS 531.

MAS 535 – PRACTICAL NONPARAMETRIC STATISTICS (5) (W)

An introduction to distribution-free methods and their uses. Topics will include: tests based on the binomial distribution, contingency tables, use of ranks and statistics of the Kolmogorov-Smirnov Type. These topics cover familiar test statistics such as Mann-Whitney, Wilcoxon signed ranks, Spearman, Kendall, Kruskal-Wallis. Prerequisite: First course in statistics.

MAS 541-542 – DESIGN OF EXPERIMENTS I-II (5-5) (S,SS)

An applied course in the design and analysis of experiments applicable to all those interested in industrial and scientific experimentation. A knowledge of the basic fundamentals of the analysis of variance and testing of hypotheses is assumed. Topics include classical statistical designs (Latin squares, randomized blocks, etc.), factorial and fractional factorial designs, confounding and aliasing, response surface designs, and asymmetric and main effect designs. Prerequisite: MAS 332 or MAS 336.

MAS 543-544 – REGRESSION ANALYSIS I-II (5-5) (W,S)

A comprehensive review of the role of linear models in statistics. Extensive use is made of matrix notation and a prior course in linear algebra is imperative. The fundamental theorems underlying regression analysis and the analysis of variance will be covered. Such topics as the Gauss-Markov Theorem, generalized least squares, estimation and testing of hypotheses will be covered. Prerequisite: MAS 332 and MAS 345.

MAS 551-552-553 – REAL AND COMPLEX ANALYSIS I-II-III (5-5-5) **(F,W,S)**

An intensive study of the basic ideas of real and complex analysis based on a prerequisite knowledge of the multivariable calculus. Topics to be discussed include the following: sequences, series, power series expansion, differentiability, integration theory, Cauchy's Formula, residues, conformal mappings, measurable sets, measurable functions, elementary theory of Lebesgue integration. Prerequisite: MAS 303.

MAS 565 – ADVANCED NUMERICAL ANALYSIS (5) **(S)**

This course presents a mathematical analysis of standard numerical methods. It is based on an elementary numerical analysis course and a knowledge of differential equations. Topics to be discussed include: approximation and error analysis, numerical solutions of ordinary and partial differential equations, mathematical analysis of iterative processes. Prerequisite: MAS 325, MAS 345, and MAS 365.

MAS 570-571 – ALGEBRAIC STRUCTURES I-II (5-5) **(W,S)**

A course based on the knowledge of the calculus and linear algebra that is concerned with the fundamental concepts of algebraic structures. Topics include elementary number theory, groups, rings, fields. Concrete examples are used to introduce concepts of modern algebra. Special emphasis is placed on the ring of integers, congruences, polynomial domains and permutation groups. Prerequisite: MAS 345 or MAS 375.

MAS 575 – OPTIMIZATION AND MATHEMATICAL PROGRAMMING (5)

A course in the mathematics involved in optimization problems and procedures. Prerequisite knowledge required is that of the calculus, linear algebra, probability and statistics, and an acquaintance with the concept of mathematical models. Topics to be discussed include: non-linear programming, Lagrange Multipliers, Kuhn-Tucker Theorem, multi-stage systems, and dynamic programming. Prerequisite: MAS 362 and MAS 472.

MAS 580 – NUMBER THEORY (5) **(S)**

This course takes up topics in number theory. It assumes a knowledge of the basic concepts of modern algebra. Topics to be discussed selected from the following: congruences, Diophantine Equations, p-adic numbers, algebraic number theory, class numbers, distribution of primes, continued fractions, and number theoretical explorations using the computer. Prerequisite: MAS 570.

MAS 595 – INDEPENDENT STUDY (1-5) **(F,W,S,SS)**

Individual conferences, assigned reading, reports on independent investigations.

MAS 598 – SPECIAL TOPICS (1-5) **(F,W,S,SS)**
A course designed to give groups of students an opportunity to pursue special studies not otherwise offered.

MAS 611-612 – DISCRETE ALGEBRAIC STRUCTURES (5-5) **(F,W)**
A study of discrete and finite algebraic structures and their relationship to modern applications of mathematics. Prerequisite: Permission of instructor.

MAS 615 – ITERATION AND APPROXIMATION (5) **(S)**
An intensive study of the techniques and ideas of mathematics used in iterative techniques to find approximate solutions. Prerequisite: Permission of Instructor.

PHYSICS MAJORS

LOWER DIVISION PREPARATION:

Ninety quarter hours (60 semester hours) of lower division course work, part of which should be in the sciences, are required. The following lower division courses are recommended so that the student can complete the requirements for a Bachelor of Science in Physics in the least amount of time:

Recommended Courses:
Algebra and Trigonometry
General Chemistry (10 quarter hours)
Physics with or without calculus
Calculus (10 quarter hours)

Remarks: All but the first of these courses may be taken at Florida International University.

UPPER DIVISION PROGRAM:

Required Courses:

PHY 301-303	Physics with Calculus	15 quarter hours
PHY 340-341	Modern Physics	10 quarter hours
PHY 311-312	Electromagnetic Theory	10 quarter hours
PHY 410	Classical Mechanics	5 quarter hours
PHY 411	Statistical Mechanics	5 quarter hours
PHY 322	Optics	5 quarter hours
PHY 321	Thermodynamics	5 quarter hours
PHY 420-421	Quantum Mechanics	10 quarter hours
	Math elective beyond 10 quarter hrs. of calculus	5 quarter hours
		70 quarter hours
		20 hours electives
	TOTAL	90 quarter hours

PHY 301-303 – PHYSICS WITH CALCULUS (5-5-5)

Introductory physics for students who have had mathematics through the integral calculus. PHY 301 will cover classical mechanics, PHY 302 will cover heat and light, and PHY 303, electricity and magnetism, electromagnetic theory, and optics.

NAS 301-303 – PHYSICS AND CALCULUS (10-10-10)

An integrated approach to calculus and physics the content being that of PHY 301-303 and MAS 301 and 302 with additional topics in calculus and related areas.

PHY 301L, 302L, 303L – JUNIOR PHYSICS LABORATORY (2-2-2) (F,W,S)

Laboratory section of Physics 301-303. This may be taken separately.

PHY 305, 306 – PHYSICS WITHOUT CALCULUS (5-5) (F,W)

Introductory physics for students without calculus. The same material is presented as in PHY 301-303, but with less mathematical sophistication. Not recommended for science or pre-med majors.

PHY 307 – OBSERVATIONAL ASTRONOMY (2) (F)

A study of astronomical objects visible from Miami: Stars and their constellations, planets, binary stars, star clusters, variable stars, nebulae and galaxies will be among the objects discussed and observed.

PHY 309 – MODERN ASTRONOMY (5) (F)

The structure of the universe as presently understood is discussed, with the solar system as a basis. Elementary explanations of the structure of the stars will be covered.

PHY 310 – MODERN ASTROPHYSICS (5) (W)

The structure of the universe as presently understood with particular emphasis on physical laws and their applications. The structure and evolution of the stars and cosmology will be covered.

PHY 311, 312 – ELECTROMAGNETIC FIELDS (5-5) (F,W)

The theory of electromagnetic fields and waves is developed from basic principles. A detailed treatment of Maxwell's equations and special relativity.

PHY 321/CHE 321 – THERMODYNAMICS (5)

Fundamental principles of thermodynamics; the first, second, and third laws, free energy, entropy, the chemical potential, phase rule and its applications. The first in a three-quarter physical chemistry sequence. The student requires competence in general chemistry and in mathematics through Calculus I. (Lecture)

PHY 322 – OPTICS AND STIMULATED EMISSIONS (5) **(W)**

Geometrical optics, physical optics, lasers, interference and diffraction, the properties of waves.

PHY 340-341 – MODERN PHYSICS (5-5) **(W,S)**

The student is introduced to developments in physics that have occurred since 1900. Subject material will include quantum mechanics, relativity, atomic and nuclear.

PHY 351 – EARTH PHYSICS (5)

The planet earth treated as a physical system. The formation and structure of the earth will be discussed, as well as current dynamic changes.

PHY 352 – ELECTRONICS (5) **(F,S)**

Including solid state theory and the theory of circuits. Circuit operation and design in lecture and laboratory sessions.

PHY 356/CHE 356 – INSTRUMENTATION AND DESIGN (5) **(W)**

In this course the student will work with an electronic patch kit and design such pieces of standard laboratory equipment as amplifiers, pH meters, recorders, and various regulating units. Comprehensive background in both general chemistry and general physics is advisable. (Laboratory)

PHY 360 – PHYSICS AND SOCIETY (5) **(F)**

An analysis of the interaction between the scientific community and the remainder of society, using physics as an example of science. An historical treatment of the development of modern scientific thought. Especially recommended for non-science majors.

PHY 407, 408, 409 – SENIOR PHYSICS LABORATORY (2-2-2) **(F,W,S)**

Advanced laboratory topics are treated. Modern physics laboratory equipment is used, and the student is introduced to current physics laboratory practice. A continuation of the 308-310 sequence.

PHY 410 – CLASSICAL MECHANICS (5) **(W)**

Advanced mechanics for the undergraduate. Newtonian mechanics, gravitation, Lagrange's equations.

PHY 411/CHE 406 – STATISTICAL MECHANICS (5) **(F)**

Principles of statistical mechanics, kinetic theory, energy distributions, statistical thermodynamics of ideal and real gases, chemical equilibrium. The student should be thoroughly conversant with thermodynamics and advanced calculus. (Lecture)

PHY 420/CHE 323, PHY 421 – QUANTUM MECHANICS (5-5) **(S,S)**

Hilbert Space, Hermetian operators, wave mechanics, matrix mechanics, perturbation theory.

PHY 430 – FLUID MECHANICS I (5) **(S)**

Conservation equations for control volumes, steady viscous and non-viscous incompressible flows, flow in open channels.

PHY 431 – FLUID MECHANICS II (5) **(SS)**

One and two dimension compressible flow including isentropic flow, shick waves, friction and heat transfer effects.

PHY 440 – SOLID STATE PHYSICS (5) **(S)**

Crystalline form of solids, lattice dynamics, metals, insulators, semi-conductors, and dielectric materials.

PHY 451, 452 – NUCLEAR PHYSICS (5-5) **(W,S)**

A treatment of the current state of the nuclear theory problem and a discussion of modern experimental methods.

PHY 491-493 – INDEPENDENT STUDY (15) **(F,W,S,SS)**

The student will work under the supervision of a faculty member, on subject material of mutual interest.

PHY 501, 502 – THEORETICAL PHYSICS (5-5) **(S,SS)**

The theoretical foundation of classical mechanics, relativity, fields, quantum mechanics, group theory and relativity.

PHY 591-593 – SPECIAL TOPICS (15)

The student will work under the supervision of a faculty member, on subject material of mutual interest.

STATISTICS MAJORS

LOWER DIVISION REQUIREMENTS:

Required Courses:
Analytic Geometry

Recommended Courses:
Calculus I and II
Multivariable Calculus
Linear Algebra
Elementary Statistics
Introductory Computer Course

Remarks: The student who has not completed the calculus requirement before entering Florida International University will be required to take MAS 301-302-303.

UPPER DIVISION PROGRAM:

Required Courses:

Mathematical Statistics – MAS 331 and MAS 332
Applied Statistical Analysis – MAS 335 and MAS 336
Applied Linear Algebra – MAS 345
Introduction to Computers I – MAS 311

The student must complete an additional 25 hours of coursework in the Mathematical Sciences Department, including at least 15 hours in Statistics courses. All other courses necessary to complete the 90 quarter hour requirement are free electives.

NOTE: Statistics courses are listed under Mathematical Sciences.

School of Business and Organizational Sciences

Dean George B. Simmons

Florida International University recognizes the need of the business community and the various governmental agencies for trained and highly skilled management graduates. Opportunities for men and women with degrees in administration, business, management, and various other organizational sciences will continue to increase.

The School of Business and Organizational Sciences offers academic programs leading to both graduate and undergraduate degrees. These courses of study are designed to help prepare the student for careers in business, public administration, and other areas of institutional management.

Programs of the School of Business and Organizational Sciences generally are based on a broad background in the humanities, and arts and sciences, followed by a foundation of management policies, institutions and operations, including study of basic management tools of analysis and decision-making. Further study in the functional areas of enterprise leads to a thorough preparation in a selected field of specialization.

Major emphasis is placed upon the involvement of the institution with its economic, political, social and ecological environment. Management of change in response to the needs of society is stressed.

UNDERGRADUATE STUDY

ADMISSION:

The School of Business and Organizational Sciences believes that students receiving the Bachelor of Business Administration degree should initially have a sound foundation in the liberal arts and then complete a professional program in business and management. In four years of study for the degree, the student should have approximately equal parts of general education courses and professional courses in business administration. Students entering directly into the professional curricula of the School of Business and Organizational Sciences are required to have completed the Associate in Arts degree or its equivalent, and are encouraged to bring with them some knowledge of accounting, mathematics, computer programming, and economics. The broad liberal arts exposure inherent in the Associate in Arts degree enables a student to complete the Bachelor of Business Administration requirements in the equivalent of two years and to take most of the professional work with Florida International's School of Business and Organizational Sciences.

PROGRAM:

The curriculum of the School of Business and Organizational Sciences includes certain required courses, each of which is designed to introduce the student to a common body of knowledge, including quantitative analysis, finance and control, administrative theory and practices, the social and legal environment of business, and marketing and distribution. The international dimension of business and institutional management is emphasized in order to give the student an understanding of alternative ways of organizing and managing.

ENTRANCE REQUIREMENTS

All students entering the School of Business and Organizational Sciences are required to meet the following three standards:

1) 90 quarter hours (60 semester) completed, and

2) grade point average of 2.0 or above, and

3) satisfactorily meet general University requirements for admission.

The basic program in the School of Business and Organizational Sciences (to obtain a BBA degree) is 90 quarter hours. Generally, students completing pre-core and/or general educational requirements at Florida International will add these credits to their basic 90-hour program.

UPPER DIVISION TRANSFER CREDITS

In order for courses to be acceptable as transfer credits toward upper-level course work, they must be:

1. Credits designated as Junior/Senior level from a Senior (upper-level) institution.
2. Credits from an accredited institution.
3. Or, credits validated through some other acceptable measure to certify its equivalence.

ADVANCED COURSE WORK

Generally, all junior level students are expected to concentrate on the 45 hours of core courses (and pre-core courses, if needed). Courses at the 400 and 500 level normally will be pursued during the senior year. More explicitly, students taking 400 and 500 level course work are required to have the necessary background/preparation through experience and/or academic training before enrolling in a course at this level.

RESIDENCY REQUIREMENT

Florida International University (School of Business and Organizational Sciences) requires all students to complete 45 quarter hours of course work on this campus to qualify and be certified for a B.B.A. degree. This policy is applicable to all students except in extraordinary cases that warrant special considerations.

CREDIT-BY-EXAMINATION

In order to receive credit for a course by examination:

1. The student must register for the course.
2. Students are advised of the Credit by Examination Policy, and may volunteer to attempt to exam out of a course upon presentation of sufficient justification.
3. The instructor gives those students requesting credit by examination a special exam, preferably during the first week of classes so as to allow time for the student to add a different course if he successfully exams out of his present course.
4. If the student, in the opinion of the Professor, successfully passes the special examination the student receives the grade of "CR" for the course. This grade is noted on the grade roll at the end of the quarter along with the grades of the other students.

POLICY ON COURSE LOADS

The School of Business and Organizational Sciences has adopted the following guidelines on normal course loads for degree-seeking students.

Undergraduate

Students attending full time	20 hours
Students working part time	15 hours
Students working full time	10 hours

Graduate

Students not working or only working part time	15 hours
Students working full time	10 hours

Ecxeption to the above guidelines must be approved by the Office of the Dean. Justification should include unusual circumstances combined with high scholarship.

PROGRAMS FOR MAJOR IN

ACCOUNTING
FINANCE
INSURANCE
INTERNATIONAL MANAGEMENT
MANAGEMENT
MARKETING
PERSONNEL MANAGEMENT
PUBLIC ADMINISTRATION
REAL ESTATE
TRANSPORTATION
URBAN AND REGIONAL AFFAIRS

MANAGEMENT INFORMATION SYSTEMS

LOWER DIVISION PREPARATION:

The following course requirements, in addition to the other requirements for the Associate of Arts Degree, should be a part of the 90 quarter hours (60 semester hours) of lower division coursework completed in order to enter these upper division majors.

Required Courses:

Accounting	10 quarter (6 semester) hours
Economics	10 quarter (6 semester) hours
College Algebra	5 quarter (3 semester) hours
Statistics	5 quarter (3 semester) hours
Computer Programming	*5 quarter (3 semester) hours

* **Computer Programming Proficiency Requirement:** The rapidly increasing need of the professional administrator for exposure to computer technology and terminology is the rationale for the Computer Programming Proficiency Requirement of the School. The growth and reliance on data processing techniques by business and government demand that fundamental experience in this area be achieved. Therefore, prior to enrollment in BUA 306— Introduction to Information Systems, each student must demonstrate computer programming proficiency. This requirement may be completed in any of the following ways:

1. Successful completion of a computer programming course at the lower division.

2. Successful completion of MAS 300 — Introduction to Computer Programming, at Florida International University.

3. Successful completion of short, intensive course, offered during quarter breaks.

4. Self-study, or work experience. An examination is offered on a regular basis for students selecting this alternative.

Further details may be obtained from the Advisement Office, School of Business and Organizational Sciences.

UPPER DIVISION PROGRAM

1. **PRE-CORE**
   Entering students who have not completed the basic courses in Accounting (6 semester hours), Economics (6 semester hours), College Algebra (3 semester hours), and Statistics (3 semester hours) must complete the

appropriate courses at Florida International referred to as the Pre-Core. The Pre-Core consists of:

ACC 300	Accounting for Decisions	(5)
ECO 301	Man, Society and Economics	(5)
MAS 300	Introduction to Computer Programming	(3)
MAS 304	Quantitative Methods for Administration	(5)

2A. **CORE** (45 quarter hours) **Business Administration Students**

		CREDITS
BUA 301	Financial Management	5
BUA 302	Operations Management Policy	5
BUA 303	Principles of Marketing	5
BUA 305	Quantitative Methods for Administration	5
BUA 306	Introduction to Information Systems	5
BUA 307	Accounting for Planning and Control	5
BUA 309	Organization and Management	5
BUA 312	Business and Its Environment	5
BUA 313	Business and the Social System	

2B. **CORE** (45 quarter hours) **Public Administration Students**

		CREDITS
BUA 309	Organization and Management	5
BUA 312	Business and Its Environment	5
BUA 313	Business and the Social System	5
PAD 320	Dynamics of Individual Growth	5
PAD 400	Introduction to Public Administration	5
PAD 401	Administrative Interaction in the Public Sector	5
PAD 301	Finance and Control for the Public Sector	
	OR	5
PAD 428	Budgets and the Administrative Process	
BUA 306	Introduction to Information Systems	
	OR	5
PAD 305	Administrative Statistics and Data Systems	
PAD 312	National Policy and Its Administration	
	OR	5
PAD 321	Administrators and the Legislative Process	

3. Successful completion of an additional 45 quarter-hours. Twenty-five of the 45 hours (5 courses) are required courses within the major. The remaining 20 hours (4 courses) may be selected, with counseling, from the business offerings or from any area outside the School of Business and Organizational Sciences.

   All courses in the major must be at the 400 or 500 level; 600 level courses are open only to graduate level students.

4. **Summary of Degree Requirements:** (1) Business Administration: Core, 45 quarter-hours; Major, 25 quarter-hours; Electives, 20 quarter-hours. (2) Public Administration: Core, 40 quarter-hours; Major, 25 quarter-hours; Electives, 25 quarter hours.
5. A minimum of 90 quarter-hours at the upper level is required for the Bachelor of Business Administration degree.

CORE COURSES: BUSINESS ADMINISTRATION

BUA 301 – FINANCIAL MANAGEMENT (5) **(F,S,W,SS)**
The financial functions of obtaining capital, managing assets, and expending resources are examined from the perspective of a manager, as well as a financial officer. Attention will also be directed to some aspects of security market operations.

BUA 302 – OPERATIONS MANAGEMENT POLICY (5) **(F,W,S,SS)**
The theory and application of management techniques for the planning, analysis, and control of operational systems in manufacturing and service industries. This is an introductory course with emphasis on quantitative tools. From one to three class sessions are devoted to each of the following topics: break-even analysis; plant layout; use of OC curves, P charts, and sequential sampling in quality control; forecasting by time series analysis and exponential smoothing; assembly line balancing; scheduling; resource allocation by the assignment method; basic fixed-order quantity, fixed-order with usage, and fixed order with back orders, and price-break inventory models; simulation using random numbers; work measurement; the learning curve; PERT and CPM networks; cost-effectiveness analysis. Prerequisite: BUA 305 or equivalent.

BUA 303 – PRINCIPLES OF MARKETING (5) **(F,W,S,SS)**
A descriptive study emphasizing the functions and institutions common to marketing systems.

BUA/MAS 305 – QUANTITATIVE METHODS FOR ADMINISTRATION (5) **(F,W,S,SS)**
The use of statistical tools in management. Starting with an introduction to probability the course provides an introduction to a wide range of statistical techniques used in the management sciences. It includes descriptive statistics, statistical inference, testing of hypotheses, regression and correlation analyses and special topics such as construction of index numbers and time series analysis.

BUA 306 – INTRODUCTION TO INFORMATION SYSTEMS (5) **(F,W,S,SS)**
Survey of the major problems of information systems and information processing in organizations. Brief study of basic computer concepts, the information systems development cycle, the relation between information systems and decision making, and the

general systems framework for information problems. Prerequisite: Completion of the Computer Programming Proficiency Requirement.

BUA 307 – ACCOUNTING FOR PLANNING AND CONTROL (5) (F,W,S,SS)
Use of accounting concepts, techniques and financial data as an aid to management planning, coordination and control. Topics covered include cost behavior and control, budgeting, analysis concepts, performance measurement and analysis, and capital budgeting. Prerequisite: ACC 300 or equivalent.

BUA 309 – ORGANIZATION AND MANAGEMENT (5) (F,W,S,SS)
An analysis of organizations and the management processes of planning, organizing, directing, and controlling in the context of socio-technical systems. Individual, group, intergroup, and organizational responses to various environments and technologies are studied, as are pertinent techniques of manpower management.

BUA 312 – BUSINESS AND ITS ENVIRONMENT (5) (F,S)
A comparative analysis of societal values from an intercultural perspective. The formulation of specific objectives associated with societal goals and the process of their implementation. Stress on the broad effects of the total environment upon the administration of the private sector of organization.

BUA 313 – BUSINESS AND THE SOCIAL SYSTEM (5) (W,SS)
An examination of the interaction between business and the social, political, and legal order. Analysis of the appropriate and actual relationships and responsibilities of business to its various publics. The nature of property and profits, the balancing of claims of owners, employees, customers and citizens; elements of constitutional law; competition and monopoly; anti-trust policies and practices; problems of employment, education, poverty, crime, health, housing, transportation, and pollution. Prerequisite: BUA 312.

BUA 496 – POLICY ANALYSIS (5) (W,S)
The use of cases, guest lecturers, and gaming to integrate the analysis and measurement tools, the functional areas and public policy issued. The objective is to develop skill in broad areas of rational decision making in an administrative context of uncertainty. Prerequisite: Should be taken in the last quarter of the senior year.

CORE COURSES: PUBLIC ADMINISTRATION

For Course Listings, please refer to **2B** in this section. Course description may be found under the **Public Administration** section.

RECOMMENDED UNDERGRADUATE PROGRAMS

ACCOUNTING

The undergraduate program in accounting consists of three parts: The Core (45 quarter-hours), the Concentration in Accounting (25 quarter-hours), and Electives (20 quarter-hours, of which 10 must be in Business Law, if the two course sequence was not completed previously).

(1) Courses for an emphasis in Managerial Accounting are:

Required Courses	Elective Courses Recommended
ACC 401	ACC 408 or 508
ACC 402	ACC 495
ACC 405	ACC 505
ACC 505	BUA 408
MIS 505	BUA 496
	ECO 307
	ECO 308
	FIN 4XX
	MIS 507
	MIS 508
	MIS 509

(2) Courses for an emphasis in Financial and Public Accounting are:

Required Courses	Elective Courses Recommended
ACC 401	ACC 408 or 508
ACC 402	ACC 496
ACC 405	ACC 502
ACC 406	ACC 503
ACC 407	ACC 506
	ACC 511
	ACC 517
	BUA 408
	BUA 496
	ECO 307
	ECO 308
	FIN 4XX

FLORIDA CPA REQUIREMENT

Completion of a Bachelor of Business Administration with emphasis in public accounting are accepted by the Florida State Board of Accountancy as fulfilling requirements to sit for the Certified Public Accountant Examination providing the student has completed the following:

(1) 27 quarter-hours in accounting beyond elementary accounting principles from courses in financial accounting, cost accounting, taxes, auditing, and computers and information systems in business.

(2) 13 quarter-hours in English, English literature, oral and written communication. (Persons who complete their baccalaureate degree after December 31, 1974, will be required to complete a three semester or four quarter hour course in written communication above the basic School of Business and Organizational Sciences English requirement.)
(3) 27 quarter-hours in general business form courses in economics, business law, finance, and quantitative applications in business (including statistics and mathematics of probability).

The following is a model schedule with several options that must be followed by the typical full-time student who (1) has completed all of the freshman-sophomore requirements and (2) wishes to complete the undergraduate accounting program with emphasis in Public Accounting. Deviations from this schedule must be approved by the Chairman of the Finance and Accounting Division.

Quarter 1

BUA/MAS
305
BUA 309
BUA 307
Note: Any precore deficiencies must be completed in Quarter 1.

Quarter 2

ACC 405 – This course may be taken later if the student desires
BUA 306
BUA 312

Quarter 3

ACC 401 – This course could be taken in Quarter 2
*BUA 303
BUA 313

Quarter 4

ACC 402
*BUA 302
Elective – English, etc., or written communication (as indicated above in (2) under "Florida CPA Requirement") or LAW 401, if not completed previously.

Quarter 5

ACC 406
*BUA 301
Elective – ACC 503
BUA 408 (and/or a 400 level Finance Course)
LAW 402 (if not completed previously)

Quarter 6

ACC 407
Two elective courses – BUA 496 is strongly recommended

*These courses may be taken in any order.

FINANCE

The Undergraduate Program in Finance consists of three parts — The core (45 quarter-hours), The Concentration in Finance (25 quarter-hours), and Elective (20 quarter-hours).

The concentration in Finance is further subdivided into three areas plus some specialized courses that are included below in the Finance section of the catalog.

The three areas are:

1) Managerial Finance:
   FIN 405 — Policies for Financial Management
   FIN 406 — Topics in Finance
2) Financial Institutions and Markets
   FIN 415 — Nonbank Financial Intermediaries and Markets
   FIN 416 — Commercial Bank Management
3) Investments
   FIN 425 — Security Analysis
   FIN 426 — Topics in Investment Analysis

The concentration in Finance consists of five courses selected from the above three areas and the specialized courses.

Finance majors are urged to elect courses in micro- or macroeconomics.

BUA 301, 305, and 307 are prerequisites for all Finance courses at the 400 or 500 level.

The following is a suggested program of study for the undergraduate finance major:

Quarter 1

BUA/MAS 305
BUA 307
BUA 309

Quarter 2

BUA 301
BUA 302
BUA 312

Quarter 3

BUA 303
BUA 306
BUA 313

Quarter 4

Three elective courses

Quarter 5

Three elective courses

Quarter 6

Three elective courses — BUA 496 is strongly recommended

MANAGEMENT

The Division of Management offers programs of study at the undergraduate and graduate level in Organizational Theory, Personnel Management, Behavioral Science, Management Science, Management Information Systems, and Health Care Management. The undergraduate program in Health Management is jointly offered by the School of Health and Social Services. For admission requirements, consult the Department of Health Sciences, School of Health and Social Services. The student is given wide latitude either to specialize in one particular area, or to select from courses on a more general level of professional education.

To assist the undergraduate student in planning his academic program, the following is suggested as a recommended program of study.

Quarter 1

BUA/MAS 305
BUA 307
BUA 309

Quarter 2

BUA 301
BUA 302
BUA 303

Quarter 3

BUA 306
BUA 312
BUA 408

Quarter 4

BUA 313
One course with MAN prefix
One elective course*

Quarter 5

Two courses with MAN prefix
One elective course*

Quarter 6

BUA 496 – Policy Analysis
Two elective courses*

Course recommendations in specific subject areas (i.e., Information Systems, Personnel Management, Health Management, etc.) may be obtained from the Division office.

*Elective courses may be taken in any division of the School, or in any other unit of University.

MARKETING

For a major in marketing, the program requires 25 credit hours of marketing courses beyond the core course (BUA 303 Principles of Marketing). Of these 25 credit hours, 15 hours consist of the following required courses:

MAR 404 Intermediate Marketing Management	(5)
MAR 410 Introduction to Consumer Behavior	(5)
MAR 411 Introduction to Marketing Research	(5)

The remaining 10 credit hours may be elected by the student, with his advisor, from other marketing courses available.

GRADUATE PROGRAMS

The Graduate Programs of the School of Business and Organizational Sciences offer the student advanced professional education for managerial careers in business and government. At the graduate level, the degrees of Master of Business Administration and Master of Science in Management are offered. Three certificate programs, in Management Information Systems, Personnel Administration, and Real Estate are also offered.

Generally, graduate programs in the School of Business and Organizational Sciences are aimed at accomplishing two objectives. The first objective is to provide the student with a sound foundation in a variety of management functions such as Marketing, Production, Accounting, Finance, Quantitative Methods, Decision-Making, and Behavioral Science. Based upon this foundation, the second objective of the programs in the School is to provide these students with a specialization and expertise in a particular area of management so as to facilitate the student's performance on his entry or second level job.

ADMISSION REQUIREMENTS

To be eligible for admission to the Graduate Programs in the School of Business and Organizational Sciences at Florida International University, the applicant must:

1. Satisfactorily meet the general University requirements for admission to graduate programs.
2. Hold a baccalaureate degree from a regionally accredited college or university.
3. Have a "B" average or better (or the equivalent) in all work attempted while registered as an upper division student working for a baccalaureate degree **or** a score of 450 on the Admission Test for Graduate Study in Business (ATGSB). Students must submit their ATGSB scores. As of this printing the admissions requirements are under review by the Faculty. Students considering applying should first contact the Graduate Coordinator of the School of Business and Organizational Sciences.
4. Foreign students must present a minimum score of 500 on the TOEFL or equivalent on a comparable examination. (See General Admission Requirements for International Students—undergraduates and graduates, in Admission section of this catalog.)

5. Be in good standing with previous colleges or universities attended.

APPEALS FOR ADMISSION

An applicant who seeks admission to full graduate standing as an exception to the entrance requirements, must, after being rejected, file an appeal with the Graduate Coordinator who refers the cases to the School of Business and Organizational Sciences Graduate Appeals Committee for review.

APPLICATION PROCEDURES FOR THE MASTER OF BUSINESS ADMINISTRATION AND THE MASTER OF SCIENCE IN MANAGEMENT PROGRAMS

A student planning to enroll in Graduate Studies in the School of Business and Organizational Sciences must take the following steps and meet certain stipulated requirements:

1. The applicant must submit a graduate application for admission to the Admissions Office of Florida International University. Application forms will be mailed upon request. Completion of matriculation may require as much as two months after receipt of the application, depending upon the time involved in the receipt of transcripts and test scores.
2. A copy of official transcripts of all previously earned college or university credits should be sent from the applicant's former institution(s) to the Admissions Office of Florida International University. Copies procured and submitted directly by applicants are not accepted for application purposes.
3. The candidate must submit his scores on the Admission Test for Graduate Study in Business (ATGSB), administered nationally by the Educational Testing Service (Box 966, Princeton, New Jersey, 08540). Registration Forms will be mailed upon request.
4. The application for admission and all other required documents must be filed with the Admissions Office before any decision can be made regarding the eligibility of an applicant.

DEGREE REQUIREMENTS

To be eligible for a Master's degree, a student must:

1. Satisfy all university requirements for a Master's degree.
2. Meet the requirements of an approved Program of Study.*
3. Complete a minimum of 45 quarter hours of graduate level coursework or the equivalent, beyond the Common Body of Knowledge.**
4. Earn an average of B or the equivalent in all graduate work. A student with a C or less in two or more courses may have his admission to the program reviewed.

* The student's Program of Study is developed by the student and his faculty advisor and must be approved by the Division Chairman and the Dean of the School of Business and Organizational Sciences.

** The "Common Body of Knowledge" shall include the equivalent of one year of work comprising the following areas: (a) a background of the concepts, processes, and institutions in marketing and distribution, production, and financing functions of business enterprise; (b) a background of economic and

legal environment of business enterprise along with consideration of the social and political influences of business; (c) a basic understanding of the concepts and methods of accounting, quantitative methods, and information systems; (d) a study of organization theory, interpersonal relationships, control and motivation systems, and communications; (e) a study of administrative processes under conditions of uncertainty including integrating analysis and policy determination at the overall management level.

TRANSFER CREDIT

Beyond the Common Body of Knowledge, the student may receive permission to transfer up to ten quarter hours of graduate credit to his degree program, provided that: (1) the course(s) were taken at the graduate level from a regionally accredited college or university, (2) grade(s) of "B" or better were earned, and (3) the course(s) were judged by the faculty advisor, Division Chairman, and Dean to be relevant to the student's graduate program. Credit is not transferable until the student has earned an equivalent amount of credit at this school.

GRADUATION PROCEDURES

1. During the first year in the program, undergraduate and graduate students develop and sign with their faculty advisor and dean, advance standing forms and programs of study; this program of study becomes the basic contract between the School and student and is used in determining when a student is eligible for a degree.
2. Approximately five months prior to his expected graduation date, the student files, with the Office of Registration and Records, an application for graduation.
3. The Dean's Office, having received this application from the Office of Registration and Records, has the appropriate faculty advisor review the student's record in order to determine that he has, or is in the process of, successfully fulfilling the courses required for graduation as listed in the program of study.
4. If the student's progress is deemed acceptable, the faculty advisor, division chairman, and dean certify the application for graduation, contingent upon completion of the course work which the student is registered for in his final quarter.
5. The Dean's Office should receive copies of all programs of study after all signatures have been obtained.

500-LEVEL COURSES

500-level courses are open to graduate students and seniors. Graduate Students in the Master of Business Administration program may take a maximum of two 500-level courses towards the degree, while Master of Science in Management students may take a maximum of three 500-level courses. All other courses in the student's program must be at the 600-level (courses which are only open to graduate students).

MASTER OF BUSINESS ADMINISTRATION

The overall objective of the Master of Business Administration Program is to provide advanced professional education in Business and Organizational Sciences for executive leadership.

The first year of the MBA Program generally consists of course work in basic management areas such as Behavioral Science, Management, Business Environment, Quantitative Methods, and Accounting. Students whose undergraduate or graduate backgrounds are appropriate in terms of course work and grades may, with the authorization of the Faculty Advisor and Dean have some or all of these basic management (common body) courses waived.

The second year of the MBA Program consists of a graduate core in Policy, Economics, Decision-Making, and Research. In addition, the student can take courses in a specialization such as Production, Marketing, Personnel, or Finance.

As of this printing the curriculum is under review by the Faculty. Students considering applying should first contact the Graduate Coordinator of the School of Business and Organizational Sciences.

MASTER OF BUSINESS ADMINISTRATION (MBA)

MBA 605 – FINANCIAL ACCOUNTING ANALYSIS (5)
A study of the accounting model of the enterprise, the accounting process and principles, measurement concepts, and the measurement of financial position and funds and income flows.

MBA/ECO 606 – MANAGERIAL ECONOMICS I (5)
Basic microeconomic and macroeconomic concepts as they apply to decision making within the organization; supply and demand; market structure and market behavior in specific industries; basic aggregate economic models and forecasting.

MBA 607 – QUANTITATIVE METHODS IN MANAGEMENT (5)
Introduction to basic quantitative tools for the analysis of problems arising in the management of organizations and the application of these tools to real-life problems.

MBA 615 – WORLD DYNAMICS AND THE ORGANIZATION (5)
A macro examination of economic, political, and cultural variables affecting the organization. Emphasis will be placed on social indications, societal forecasting and organizational responses to those changes, given the nature and rate of change in different societies.

MBA 616 – THE ORGANIZATION AND THE INTRA-NATIONAL ENVIRONMENT (5)
A comparative analysis of particular public and private organizations in specific cultures and their interaction with other institutions; particular attention to environmental and institutional constraints on the organization, especially the contrasting of the goals of the organization with the society's.

MBA 617 – ORGANIZATIONAL ANALYSIS (5)
Study of concepts, theory, research, and operational problems of management. Emphasis is upon analyzing the management processes of planning, organizing, leading, and controlling and their relationship to the nature of the task, technology and the environment.

MBA 625 – MANAGERIAL DECISION-MAKING (5)
This course will investigate and analyze the decision problems that managers face in business, volunteer organizations, government, and the public sector. Emphasis in the course will be placed on providing a variety of decision-making experiences for the student. Prerequisite: MBA 607.

MBA 626 – ORGANIZATIONAL INFORMATION SYSTEMS (5)

Introduction to information systems and their role in organizations from a users viewpoint. Survey and application of the basic concepts necessary for understanding information systems. Study of the main activities in the development cycle used to acquire information systems capability.

MBA 627 – ACCOUNTING FOR DECISION-MAKING (5)

An exploration of management's information needs and the utilization and analysis of accounting information for planning, control, and other decisions.

MBA 635 – FINANCIAL MANAGEMENT (5)

An examination of the financial functions of obtaining capital, managing assets, and expending resources from the perspective of both the manager and the financial officer.

MBA 636 – MARKETING MANAGEMENT (5)

A study of analysis, planning, and control of programs designed to bring about marketing exchanges. The course focuses on decisions concerning product, price, place and promotion.

MBA 637 – OPERATIONS MANAGEMENT (5)

This course covers the analysis of design and operations in organizational systems. The systems approach is used to provide a framework or general model of analysis to which specific concepts, quantitative techniques, and tools can be related. The material presented has application to any organization of people and machines, such as hospitals, governmental agencies, service organizations, and industrial concerns. Prerequisites: MBA 607 or equivalent.

MBA 695 – INDIVIDUAL STUDY PROJECT (5)

An individualized research project, and report, which may include field experience with a firm or agency, library research, computer programming, or project development. Permission of the faculty advisor is required before registering for the course. The course should be taken during the last half of the student's graduate program.

MBA 699 – POLICY ANALYSIS (5)

The use of cases, guest lectures, and gaming to integrate the analysis and measurement tools, the functional areas and public policy issued. The objective is to develop skill in broad areas of rational decision making in an administrative context of uncertainty. Prerequisite: Should be taken in the last quarter of Master's Program.

In addition to the required MBA courses, the student will select a minimum of 4 elective courses. These courses are selected by the student in consultation with his faculty advisor.

MASTER OF SCIENCE IN MANAGEMENT (MSM)

The overall objective of the Master of Science in Management Program is to provide an in-depth educational experience for those students desiring greater specialization in a particular area.

Concentrations within the Master of Science in Management program are available in the following areas:

Accounting	Real Estate
Health Care Management	Public Administration

The Master of Science in Management Program is a one to two year sequence depending upon the specific program and the applicability of the student's undergraduate course work. The type and number of prerequisite courses varies by the area of concentration. Each student will be counseled concerning his individual deficiencies, if any, and how they may be met.

A maximum of three courses (15 quarter-hours) may be taken at the 500 level out of the total 45 hours in the program.

At least 35 of the minimum 45 quarter hours must be taken in residence at Florida International University, which means that the student may receive transfer credit for up to 10 quarter hours of 500/600 level courses, with the approval of his faculty advisor.

Master of Science in Management programs are available in Finance, and General Management. Pre-core requirements and length are generally the same as the MBA. Permission of the Dean is required and **students are strongly urged to take these concentrations within the Master of Business Administration program.**

MSM ACCOUNTING

The MSM Program in accounting is designed primarily for the student with an undergraduate degree in accounting. The student with a bachelor's degree in another field may be admitted to this program after mastering the equivalent of the "Common Body of Knowledge" in business and the necessary accounting and business law courses.

For those with an undergraduate degree in accounting, the program is a one-year, forty-five (45) quarter-hour, sequence consisting of three parts: Accounting, twenty (20) quarter-hours, Electives, twenty (20) quarter-hours, and a Master's Project, five (5) quarter-hours.

Due to the many varied career opportunities, the MSM Program in Accounting is divided into two subprograms and many variations are possible. The Managerial Accounting program is designed for students who aspire to be officers in business corporations, governmental units, or not-for-profit organizations, and the Public Accounting program is designed for students who aspire to be certified public accountants and leaders in the public accounting profession.

PROGRAM OF GRADUATE STUDY IN ACCOUNTING

1. A minimum of twenty (20) quarter-hours of course work from the following list of courses:

ACC 501	Financial Accounting
ACC 502	Standards and Principles of Financial Accounting
ACC 503	Advanced Financial Accounting
ACC 504	Topics in Financial Accounting
ACC 505	Topics in Managerial Accounting
ACC 506	Governmental and Institutional Accounting
ACC 507	International Accounting
ACC 508	Accounting Information Systems
ACC 510	Behavioral Accounting
ACC 512	Auditing
ACC 513	Accounting for Income Taxes
ACC 514	Taxation of Corporations and Partnerships
ACC 515	Taxation of Estates and Trusts
ACC 517**	Accounting Problems
ACC 526	International Taxation
ACC 602	Seminar in Accounting Information Systems I
ACC 603*	Seminar in Accounting Information Systems II
ACC 606*	Managerial Accounting II
ACC 607	Seminar in Managerial Accounting I
ACC 608*	Seminar in Managerial Accounting II
ACC 610**	Seminar in Accounting Theory I
ACC 611**	Seminar in Accounting Theory II
ACC 612**	Studies in Auditing
ACC 613**	Tax Planning and Research
ACC 693	Independent Study in Accounting
ACC 697	Special Topics in Accounting

2. ACC 695 Master's Project (required)
3. Twenty (20) quarter-hours of elective courses to be selected with the advice and permission of the faculty adviser.

* Designed primarily for Managerial Accounting Majors
** Designed primarily for Public Accounting Majors

MSM HEALTH CARE

The educational program in health care management is jointly developed and offered by the School of Business and Organizational Sciences and the School of Health and Social Services. The program is not designed to train hospital administrators, but rather to provide appropriate academic preparation for people elevated from service positions to managerial positions in the health care industry.

The proposed program will play a key role in preparing the employee-graduate student to meet the challenges of tomorrow in the administration of his organization in the health delivery system.

Both the School of Business and Organization Sciences and the School of Health and Social Services will strive to create and encourage a creative, dynamic and interdisciplinary climate whereby this program will provide leadership for the delivery of health services.

Program Prerequisites:

Math and Statistics (College Algebra & Introduction to Statistics)	(One course each)
Economics (Micro and Macro)	(Two courses each)
Social Sciences	(Two Semesters)
Accounting	(One Semester)
One year working experience in the Health Care Field	

Required Courses:

MAN 680 Problem Solving in Health Management
MAN 682 Health & Social Service Delivery Systems
MAN 683 The Health Environment
MAN 684 Health Care Facilities Organization & Management
MAN 695 Master's Project

Elective Courses:

MAN 515 Health Planning Techniques
MAN 517 Human Resource Management in Health Care Organizations
FIN/
MAN 518 Health Care Financial & Accounting Management
MAN 601 Survey of Management Science
MBA 617 Organizational Analysis
MAN 643 Personnel Training & Development
MBA 626 Organizational Information Systems

MSM REAL ESTATE

A Master of Science in Management with a concentration in Real Estate is available to persons interested in graduate work in Real Estate.

The South Florida region is the "action center" for real estate. The demand for professionally educated personnel in real estate far exceeds the supply. University graduates in real estate find employment in: land planning and development; real estate investing and counseling; environmental planning; development of new cities; international real estate; recreational land use developments; construction management; corporate real estate divisions; governmental agencies; appraising; marketing or residential, commercial, and industrial properties; property management, such as of large apartment complexes, office buildings, and shopping centers; conventional and creative real estate financing through financial institutions, such as commercial banks, savings and loan associations, life insurance companies, mortgage bankers and mortgage brokers; and teaching in the rapidly growing field of real estate education. Further, competent real estate talent is being called upon for participation in the rapidly growing field of real estate syndication, limited partnerships and joint ventures.

Program Prerequisites:

One semester of Financial Management
Two semesters of Economics
One year's experience in the Real Estate industry,
or
An undergraduate degree in Business Administration from an accredited university

Required Courses:

1. RES 695 — Master's Project
2. The student is to select four (4) of the following courses:
   RES 685 — Seminar in Real Estate Finance
   RES 686 — Seminar in Real Estate Valuation Theory and Practice
   RES 687 — Regional Planning and Development
   RES 688 — Seminar in Urban Housing Policy and Problems
   RES 689 — Seminar in Real Estate Investment and Taxation

The remaining twenty (20) hours are elective courses to be selected with the advice and permission of the student's counselor.

A specialization in Industrial Real Estate is offered with the advice and support of the Society of Industrial Realtors.

MSM PUBLIC ADMINISTRATION

A Master of Science in Management with a concentration in Public Administration is available to persons interested in graduate studies in Public Administration. (Under consideration presently are plans for a Master of Public Administration program).

The MSM program with a concentration in Public Administration is intended to facilitate conceptual, behavioral and interpersonal competence as applied to action in the public sector. The program is based upon a five course core requirement from which the individual is encouraged to develop area specialization through electives in the School of Business and Organizational Sciences and other schools and colleges of the University.

An applicant's background, through formal courses and for work experience in the following areas provides a suitable foundation for the graduate program. These areas are: (a) economics; (b) finance, accounting, budgeting, or information systems; (c) manpower management; (d) political science; (e) quantitative methods. Individuals from all preparatory backgrounds are encouraged to apply. Programs of graduate study will be designed to compensate for deficiencies that might initially exist in above foundation.

Required Courses:

1. PAD 620 Public Administration and Theories of Organizations
2. PAD 517 Personnel Administration and Budgeting
   or
   PAD 611 Decision-Making Theory and Practice
3. PAD 515 International Public Administration
   or
   PAD 616 Development Administration
4. PAD 516 Personal Growth and Professional Development
   or
   PAD 677 Organizational Behavior
5. MAN/PAD 612 or
   PAD 681 Organization Information Systems
   Research Methodology in Administration

Electives include numerous graduate level course offerings in Political Science, Economics, Psychology, Health and Social Services, Education, etc.

Elective courses should be selected with the advice and permission of program advisors.

SPECIALIZED PROGRAMS

MANAGEMENT INFORMATION SYSTEMS CERTIFICATE PROGRAM

This program is designed as a three course sequence for systems professionals who may or may not be interested in pursuing a regular degree program. The purpose of the Program is to provide advanced work for the practitioner interested in dealing with problems faced on a regular basis in his organization.

PERSONNEL ADMINISTRATION CERTIFICATE PROGRAM

This three to four course sequence is designed for Personnel Administrators who desire additional professional training in the areas of labor relations, wage and salary administration, recruitment and selection, placement, and training and development of organizational members.

Details on both programs may be obtained from the Division of Management.

REAL ESTATE PROGRAM

Please contact Real Estate Advisers about this program.

COURSE DESCRIPTIONS

ACCOUNTING

ACC 300 — ACCOUNTING FOR DECISIONS (5) **(F,W,S,SS)**
Accounting concepts and techniques essential to administration of a business enterprise and the determination of income and financial position; asset and equity accounting in proprietorships and corporations.

ACC 301 — INTRODUCTION TO THE ACCOUNTING PROCESS (2)(F,W,S,SS)
Analysis of the accounting cycle and the technical procedures used in classifying, summarizing, and interpreting the transactions of a business entity. A strongly recommended elective to be completed by those wishing to reinforce their financial accounting knowledge prior to taking BUA 307.

ACC 401 — FINANCIAL ACCOUNTING-INTERMEDIATE I (5) **(F,W,S,SS)**
An exploration of concepts, standards, and principles underlying financial reporting with major emphasis upon the measurement, analysis, and interpretation of income and changes in financial position (funds flow). Prerequisite: BUA 307, or equivalent.

ACC 402 — FINANCIAL ACCOUNTING-INTERMEDIATE II (5) **(F,W,S,SS)**
A continuation of ACC 401 with major emphasis upon the accounting concepts, standards, and principles underlying the

measurement and reporting of income and changes in financial position. Prerequisite: ACC 401.

ACC 405 – MANAGERIAL ACCOUNTING (5) (F,W,S,SS)
Determination and control of production costs; job order and process systems; actual and standard costs; budgetary control, cost and profit analyses, and other considerations for performance measurement and analysis. Prerequisite: BUA 307 or equivalent.

ACC 406 – INCOME TAX ACCOUNTING (5) (F,W,S)
A survey of federal income taxation with primary emphasis on the taxation of individuals and corporations. Prerequisite: ACC 402, or equivalent.

ACC 407 – AUDITING (5) (F,W,S)
Standards and procedures applied by independent public accountants, ethics and responsibilities of auditors, development of audit programs, accumulation of audit evidence, and reporting. Prerequisite: ACC 402, or equivalent.

ACC 408 – ACCOUNTING SYSTEMS AND INTERNAL ANALYSIS (5)
Design of accounting procedures; use of data processing equipment, internal control of business, and internal auditing, including cost and management audits. Prerequisite: ACC 402, or equivalent, and consent of instructor.

ACC 493 – INDEPENDENT STUDY IN ACCOUNTING (1-10) (F,W,S,SS)
Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and divisional chairman required.

ACC 495 – INTERNSHIP IN ACCOUNTING (1-10) (F,W,S,SS)
A special program to encourage students to get an on-the-job introduction to professional accounting in a public accounting firm and/or in an industrial or not-for-profit enterprise or a governmental agency. It is expected that the public accounting internship will be offered for Winter Quarter and the industrial internship will be offered for the Summer Session. Prerequisites: ACC 402, 405, 407, or equivalents, for both internships. ACC 407, or the equivalent, is also required for the internship in Public Accounting.

ACC 497 – SPECIAL TOPICS IN ACCOUNTING (1-10) (F,W,S,SS)
For groups of students who wish an intensive study of a particular topic or a limited number of topics not otherwise offered in the curriculum. Consent of faculty supervisor and divisional chairman required.

ACC 501 – FINANCIAL ACCOUNTING (5) (F,W,S)
An exploration of concepts, standards, and principles underlying financial reporting with major emphasis upon the measurement,

analysis, and interpretation of assets, equities, income, and changes in financial position. Prerequisite: MBA 605, BUA 307, or equivalent, and consent of instructor. No credit given if ACC 401 and 402, or equivalents, completed previously.

ACC 502 – STANDARDS AND PRINCIPLES OF FINANCIAL ACCOUNTING (5) **(F,S)**
A survey of official pronouncements on accounting standards and principles. Prerequisite: ACC 402 or ACC 501, or equivalent.

ACC 503 – ADVANCED FINANCIAL ACCOUNTING (5) **(F,W,S)**
Accounting for partnerships, business combinations, consolidated financial statements, diversified and multinational corporations, fiduciary relationships, and not-for-profit institutions. Prerequisite: ACC 402 or ACC 501, or equivalent.

ACC 504 – TOPICS IN FINANCIAL ACCOUNTING (1-5)
An in-depth study of recent developments in financial accounting. Prerequisite: ACC 402, ACC 502, or equivalent.

ACC 505 – TOPICS IN MANAGERIAL ACCOUNTING (1-5)
An in-depth study of recent developments in managerial accounting. Prerequisite: ACC 405, or equivalent.

ACC 506 – GOVERNMENTAL AND INSTITUTIONAL ACCOUNTING (5)
Budgeting, accounting, and reporting standards and practices for government and other not-for-profit entities. Prerequisite: ACC 402 or ACC 501, or equivalent.

ACC 507 – INTERNATIONAL ACCOUNTING (5)
Comparative analysis of accounting concepts and practices in different countries; international accounting standards; problems of accounting for multinational corporations, including transfers of funds and income measurement; the role of accounting in national economic development. Prerequisite: ACC 503, or equivalent, or consent of instructor.

ACC 508 – ACCOUNTING INFORMATION SYSTEMS (5) **(W)**
Design and operation of accounting systems to produce information for management decision-making; flow-charting of the collection, measurement, processing, and communication of financial data; special attention to applications of commercially available electronic computing systems. Prerequisites: ACC 300 and BUA 306, or equivalent, OR MBA 605 and MBA 626, or equivalent.

ACC 510 – BEHAVIORAL ACCOUNTING (5)
Study of the effects of the process and products of accounting and of changes in the process and products on individual and group behavior; consideration given to how accounting can aid individuals

and organizations to attain their goals. Prerequisite: ACC 402 or ACC 501 and 405, or equivalents.

ACC 511 – ACCOUNTING AND QUANTITATIVE METHODS (5)
Study of statistical and management science techniques that are or may be utilized in financial and managerial accounting. Prerequisites: BUA 302, 305, and 306, or equivalents.

ACC 512 – AUDITING (5) **(W)**
The standards and procedures applied by independent public accountants and their ethical considerations and responsibilities in the rendering of opinions on enterprise financial statements; internal auditing and control; and accounting systems. Prerequisite: ACC 501, or equivalent, or consent of instructor. No credit given if ACC 407 and 408, or equivalents, completed previously.

ACC 513 – ACCOUNTING FOR INCOME TAXES (5) **(F,S)**
Exploration of concepts of federal income taxes and tax planning with emphasis upon the determination of taxable income for the individual, the partnership, and the corporation. Prerequisite: ACC 501, or equivalent, or consent of instructor. No credit given if ACC 406, or equivalent, completed previously.

ACC 514 – TAXATION OF CORPORATIONS AND PARTNERSHIPS (5)
An in-depth study of income taxation of corporations and partnerships, including tax planning. Prerequisites: ACC 406 or ACC 513, or equivalent.

ACC 515 – TAXATION OF ESTATES AND TRUSTS (5)
An examination of federal tax law of estates and trusts, and the tax accounting and planning for income, deductions, and distributions of such entities. Prerequisite: ACC 406 or ACC 513, or equivalent.

ACC 517 – ACCOUNTING PROBLEMS (5) **(W)**
Intensive study of selected advanced accounting topics including problems of multiple ownership, fund accounting, and actuarial applications; questions and problems from recent C.P.A. examinations. Prerequisite: ACC 503, or equivalent, or consent of instructor.

ACC 526 – INTERNATIONAL TAXATION (5)
Study of the U.S. taxation of foreign income. Topics include jurisdiction, source rules, foreign tax credit, tax treaty modifications, with emphasis on organization and planning for multinational operations. Prerequisite: ACC 406 or ACC 513, or equivalent.

ACC 602 – SEMINAR IN ACCOUNTING INFORMATION SYSTEMS I (5) **(W)**
Application of general systems concepts to functional, accounting, operational, and related information requirements in business.

Data-banks, real-time accounting and operating controls, integrated information systems. Case histories and case projects. Prerequisite: ACC 508, or equivalent.

ACC 603 – SEMINAR IN ACCOUNTING INFORMATION SYSTEMS II (5)

A continuation of ACC 602 with emphasis upon the theories underlying complex information systems. Prerequisite: ACC 602, or equivalent.

ACC 606 – MANAGERIAL ACCOUNTING (5)

In-depth study into the determination and control of production costs; job order and process systems; actual and standard costs; budgetary control, cost and profit analyses, and considerations of alternative methods of performance measurement and analysis. Prerequisite: ACC 405 or MBA 627, or equivalent.

ACC 607 – SEMINAR IN MANAGERIAL ACCOUNTING I (5) (S)

Analysis of transfer pricing, product pricing, incremental profit analysis, decision models, alternative performance measurement techniques, and other advanced topics. Prerequisite: ACC 405 or MBA 627, or equivalent.

ACC 608 – SEMINAR IN MANAGERIAL ACCOUNTING II (5)

An intensive study of the controllership function in corporate organizations; an appraisal of the controller's role in planning, accomplishing, and evaluating company performance. Prerequisite: ACC 607, or equivalent.

ACC 610 – SEMINAR IN FINANCIAL ACCOUNTING THEORY I (5) (W)

A study of the theoretical structure of accounting, with special attention to asset and income definition, recognition, and measurement; an appraisal of pronouncements of professional accounting organizations. Prerequisite: ACC 503, or equivalent, or consent of instructor.

ACC 611 – SEMINAR IN FINANCIAL ACCOUNTING THEORY II (5)

A continuation of ACC 610 with emphasis on the problems of accounting for equities and price-level changes and other current issues. Prerequisite: ACC 600, or equivalent.

ACC 612 – STUDIES IN AUDITING (5) (S)

Professional and technical aspects of auditing practice; ethics and legal responsibilities; review of field work emphasizing materiality, sampling, and working papers; reporting problems including long-form and special purpose reports; study of recent auditing developments. Prerequisites: ACC 407 or ACC 512, or equivalent.

ACC 613 – INCOME TAX PLANNING AND RESEARCH (5)
An in-depth study of the taxation and planning aspects of a variety of business and other transactions. Emphasis will be upon developing an ability to perceive tax issues and to conduct research to resolve them. Prerequisite: ACC 406 or ACC 513, or equivalent.

ACC 693 – INDEPENDENT STUDY IN ACCOUNTING (1-5)
Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and divisional chairman required.

ACC 695 – MASTER'S PROJECT (5) **(F,W,S,SS)**
An individualized research project, and report, which may include field experience with a firm or agency, library research, computer programming, or project development. Permission of the faculty advisor is required before registering for the course. The course should be taken during the last half of the student's graduate program.

ACC 697 – SPECIAL TOPICS IN ACCOUNTING (1-5)
Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and divisional chairman required.

BUSINESS LAW

LAW 401 – LEGAL ENVIRONMENT OF BUSINESS (5) **(W)**
Principles of law affecting the legal environment of business; law of contracts; sales; torts; agency and employment; legal relations of government and business.

LAW 402 – LEGAL ASPECTS OF MANAGEMENT (5) **(S)**
Bailments; shipment and sale of goods; suretyship; bankruptcy; commercial paper; real and personal property; insurance; relevant provisions of uniform commerical code.

LAW 407 – BUSINESS LAW REVIEW (5) **(S,SS)**
Intensive review of those fields of law usually covered in CPA, CLU, and CACU law examinations.

LAW 410 – MANAGEMENT AND THE LAW (5) **(F)**
Analysis of legal principles affecting management through case study; role of the law in business decisions.

LAW 421 – LAW OF LABOR-MANAGEMENT RELATIONS (5) **(W)**
Federal and State legislation, leading court opinions, relating to labor-management relations, development of unions, unfair labor

practices, collective bargaining, strikes and lockouts, arbitration, and the national interest.

LAW 493 – INDEPENDENT STUDY IN BUSINESS LAW (1-10) (F,W,S,SS)
Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and Divisional Chairman required.

LAW 497 – SPECIAL TOPICS IN BUSINESS LAW (1-10) (F,W,S,SS)
Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Divisional Chairman required.

LAW 600 – SURVEY OF BUSINESS LAW (5) (S)
Graduate level survey of business law which examines the social purposes, function's and forms of the law and the courts, particularly as they relate to business organizations.

LAW 693 – INDEPENDENT STUDY IN LAW (1-10) (F,W,S,SS)
Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and Divisional Chairman required.

LAW 697 – SPECIAL TOPICS IN LAW (1-10) (F,W,S,SS)
Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Divisional Chairman required.

FINANCE

FIN 310 – PERSONAL FINANCE AND RESOURCE MANAGEMENT (5) (F,S)
The application of organization, finance, and management, concepts and methods to aid the individual in making personal financial and career decisions.

FIN 405 – POLICIES FOR FINANCIAL MANAGEMENT (5) (F,W)
The process of securing and allocating funds within the organization with emphasis on the relevant financial decision-making and policy aspects.

FIN 406 – TOPICS IN FINANCE (5) (S)
Extensions of topics selected from those covered in Finance 405. Specific topics may vary with students interests.

FIN 415 – NONBANK FINANCIAL INTERMEDIARIES AND MARKETS (5) (W)
The role of financial institutions, the sources and uses of funds of nonbank financial intermediaries, the objectives and constraints of

these intermediaries, and the supply and demand for loanable funds in different financial markets.

FIN 416 – COMMERCIAL BANK MANAGEMENT (5) (F,S)
The management of bank assets and liabilities, specialized banking functions and the role of the commercial bank in financing business.

FIN 425 – SECURITY ANALYSIS (5) (F,W)
The intrinsic-value and technical approaches to security analysis, personal portfolio development.

FIN 426 – TOPICS IN INVESTMENT ANALYSIS (5) (S)
Extensions of topics selected from those covered in Finance 425. Specific topics will reflect student interests.

FIN 435 – FINANCIAL POLICIES OF NOT-FOR-PROFIT ORGANIZATIONS (5) (W)
Financial processes relevant to governmental and other not-for-profit organizations. Emphasis is on legal, political, and market constraints on securing, managing, and expending funds.

FIN 493 – INDEPENDENT STUDY IN FINANCE (1-10) (F,W,S,SS)
Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and division chairman required.

FIN 497 – SPECIAL TOPICS IN FINANCE (1-10)
For groups of students who wish an intensive study of a particular topic of a limited number of topics not otherwise offered in the curriculum. Consent of faculty supervisor and division chairman required.

FIN 507 – MANAGEMENT OF FINANCIAL INSTITUTIONS (5)
The functions of financial institutions and their effective management to service the needs of their community.

FIN 508 – SECURITY ANALYSIS AND STOCK MARKET OPERATIONS (5)
Various approaches to evaluating the "worth" of a potential commitment of funds to a given security will be analyzed. In addition, the structure and operations of the various stock and bond exchanges will be clarified.

FIN/MAN 518 – HEALTH CARE FINANCIAL AND ACCOUNTING MANAGEMENT (5)
The financial framework within which health care organizations and facilities operate. The course covers the principles of working capital management, capital budgeting, and the capitalization process in the health care environment. Topics emphasized include inventory

management, accounts receivable management, sources of operating revenue, third party payers, budgeting for operating costs, long-term investment, and long-term financing. The student is expected to understand and participate in the financial decision-making process of health care organizations.

FIN 545 – SMALL BUSINESS FINANCE (5)

The financial markets, financial instruments, and managerial policies and techniques available to potential and existing entrepreneurs and owner/managers. Emphasis will be upon analysis of areas of opportunity for small business, analysis of financing alternatives, and analysis of profitability.

FIN 555 – FINANCING THE MULTINATIONAL FIRM (5)

The acquisition of long-term and working capital funds from various countries; the availability of special sources of funds; intrafirm transfers; project selection techniques; and social, economic and political factors relevant to world wide operations.

FIN 605 – ASSET SELECTION AND MANAGEMENT (5)

The selection and management of short-term and long-term assets to achieve corporate objectives; working capital management and capital budgeting under certainty risk.

FIN 606 – BUSINESS FINANCIAL STRUCTURE (5)

The selection and management of alternative sources of funds to obtain the optimal capital structure: Short-term financing, long-term financing, constraints and cyclical phenomena affecting capital structure, stockholder relations, reorganizations and mergers.

FIN 615 – FINANCIAL MARKETS (5)

Demand for and supply of loanable funds in several major financial markets, money market instruments, and the role of financial institutions in financial markets.

FIN 616 – MANAGEMENT OF DEPOSIT INSTITUTIONS (5)

The objectives, constraints, and policies applicable to the management of financial institutions having primary deposit functions: Commercial banks, saving and loan associations, savings banks, and credit unions.

FIN 617 – MANAGEMENT OF NONDEPOSIT INSTITUTIONS (5)

The objectives, constraints, and policies applicable to the management of the nondeposit financial institutions: Life insurance companies, property and casualty insurance companies, pension funds, investment companies, real estate investment trusts, and finance companies.

FIN 625 – SECURITY ANALYSIS (5)

Various approaches to evaluating the worth of a commitment of

funds to a given security, personal portfolio development, and the investment environment.

FIN 626 – PORTFOLIO MANAGEMENT (5)
Financial theories will be applied to the construction of portfolios. Portfolio management techniques will be analyzed in regard to goals of individuals, corporations, and various financial institutions.

FIN 635 – FINANCIAL MANAGEMENT OF GOVERNMENTAL ORGANIZATIONS (5)
This budgetary process of identifying, justifying, and allocating funds. Stresses the securing of funds in the market and the efficient allocation of funds.

FIN 645 – THE THEORY OF FINANCE (5)
The rigorous theory of rational financial decision-making under both certainty and uncertainty to provide a basis for judging existing practice and a framework that readily accepts new developments in the field.

FIN 693 – INDEPENDENT STUDY IN FINANCE (1-5)
Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and divisional chairman required.

FIN 695 – MASTER'S PROJECT (5)
An individualized research project, and report, which may include field experience with a firm or agency, library research, computer programming, or project development. Permission of the faculty advisor is required before registering for the course. The course should be taken during the last half of the student's graduate program.

FIN 697 – SPECIAL TOPICS IN FINANCE (1-5)
For groups of students who wish intensive study of a particular topic or a limited number of topics not otherwise offered in the curriculum. Consent of faculty supervisor and divisional chairman required.

INSURANCE

INS 405 – RISK AND INSURANCE (5) (F)
Types of risk; methods of handling risk; analysis of insurance as a principal method; organization and operation of insurance companies; bases for decision making in management of personal and business risks.

INS 406 – PROPERTY AND LIABILITY INSURANCE (5) (W)
Multiple-line risk and risk management; the multiple-line insurance

industry; property and liability hazards and policy contracts; functional aspects of underwriting, rate making, and claims handling.

INS 407 – LIFE INSURANCE (5) **(S)**
Functions and uses of life insurance, types of policy contracts, calculation of premiums and reserves; investments; legal principles; organization, management, and supervision of companies.

INS 408 – RISK MANAGEMENT (5) **(SS)**
Concepts and philosophies of risk management; application of alternatives to handling risks, including risk retention, loss prevention, corporate insurance programs and self-insurance; insurance surveys and case studies.

INS 409 – INSURANCE LAW (5) **(W)**
Legal environment and essentials of the law particularly applicable to the business of insurance; emphasis on statutory regulation in Florida.

INS 415 – PERSONAL INSURANCE PLANNING (5) **(F)**
Planning a personal program of insurance, integrating life, health and accident, property, pensions, and governmental programs.

INS 416 – BUSINESS AND ESTATE INSURANCE PLANNING (5)
Applications of life and health insurance to business and estate planning situations; emphasis on current practices and developments in retirement planning, business continuation, and estate conservations.

INS 417 – GROUP INSURANCE AND PENSION PLANS (5) **(S)**
Group life and health insurance; policy terms, rates, and benefits; pension and profit sharing plans; organization, costs, administration, taxation, and legal aspects underlying pensions.

INS 418 – MANAGEMENT OF INSURANCE ENTERPRISE (5) **(SS)**
Analysis of the operations of insurance organizations; underwriting, rate making, regulation, legal organization, management and control, financial analysis, marketing systems.

INS 427 – PRIVATE AND PUBLIC PROGRAMS OF LIFE AND HEALTH INSURANCE (5)
Fundamentals of life and health insurance, rate making, reserves, contract provisions, emphasizing the relationships, similarities, and differences between the private and public sectors.

INS 428 – SOCIAL INSURANCE (5) **(F)**
Introductory analysis of the rationale for social insurance; structure of current social insurance programs; evaluation of programs; old-age, survivors, health, disability, and unemployment insurance.

INS 493 – INDEPENDENT STUDY IN INSURANCE (1-10) **(F,W,S,SS)**
Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and Divisional Chairman required.

INS 497 – SPECIAL TOPICS IN INSURANCE (1-10) **(F,W,S,SS)**
Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Divisional Chairman required.

INS 535 – EMPLOYEE BENEFITS AND EXECUTIVE COMPENSATION PLANS (5)
Emphasis on employee benefit plans; consideration of executive compensation, contractual arrangements, benefit formulas, and financing of death, disability, and retirement benefits; problems and policies.

INS 541 – PRINCIPLES OF ACTURIAL SCIENCE (5)
Probability theory as applied to life insurance; life contingencies; annuity and insurance benefits; premiums and reserves.

INS 543 – NUMERICAL ANALYSIS FOR ACTUARIES (5)
Compound interest theories; applications to annuities; valuation of securities and bond yield determinations; finite differences formulations; applications to interpolations; summation and approximate integration.

INS 600 – GRADUATE SURVEY OF INSURANCE (5)
Graduate examination of current problems in insurance, including theory of insurance, uses of insurance in business organizations; property and liability insurance, health insurance, and life insurance.

INS 693 – INDEPENDENT STUDY IN INSURANCE (1-10)
Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and Divisional Chairman required.

INS 697 – SPECIAL TOPICS IN INSURANCE (1-10)
Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Divisional Chairman required.

MANAGEMENT

BUA 408 – MANAGERIAL DECISION-MAKING (5) **(F,W,S,SS)**
This course will concentrate on practical decision problems for the manager in an organization. Emphasis will be placed on the environment and definition of managerial problems and practical approaches to solving these problems. Prerequisite MAN 305.

MAN 405 – INTERMEDIATE QUANTITATIVE METHODS FOR BUSINESS (5)

A continuation of BUA 305, utilizing a study of additional statistical techniques, with emphasis on practical application.

MAN 407 – MANAGEMENT SCIENCE (5)

Survey of management science-operations research from an applied point of view. Emphasis on the formulation of models of business problems such as: Allocations, Inventories, Project Management, Replacement, Transportation, Scheduling, Sequencing, Queuing Theory, and Competition. Prerequisites: BUA 305, or equivalent.

MAN 408 – MANAGEMENT SCIENCE IN ECOLOGY AND URBAN SYSTEMS (5)

Application of management science/operations research tools to managerial problems in the areas of ecology oriented. Prerequisites: BUA 305, MAN 407, or equivalent.

MAN 410 – PRINCIPLES OF OPERATIONS RESEARCH I (5)

Application of deterministic operations research models such as linear and nonlinear programming, networks (CPM), dynamic programming, and branch and bound techniques to managerial problems of allocation, planning and scheduling, investment, and control prescheduling, investment, and allocation. Prerequisite: BUA 408.

MAN 411 – PRINCIPLES OF OPERATIONS RESEARCH II (5)

Application of probabilistic operations models to managerial problems of inventories, queuing, replacement and maintenance, scheduling, investment, and allocation. Prerequisites: MAN 410, BUA 408.

MAN 420 – SIMULATION OF MANAGEMENT SYSTEMS (5)

Basic concepts in computer simulation of systems. Application of these concepts in a variety of managerial problems. The course covers waiting line models, continuous simulation models, heuristic methods, and management games. Several computer programs and languages for simulation are presented. Exposure to the operation and analysis of some simulation models. Prerequisite: BUA 305, 306, or equivalent.

MAN 422 – INFORMATION SYSTEMS DEVELOPMENT (5)

An intermediate level study of the analysis and design phases of the information systems development cycle. Covers topics in problem identification, specification of user requirements, enumeration of alternative design, and choice of the best design for the situation.

MAN 428 – PRODUCTION INFORMATION SYSTEMS (5)

A study of the special problems associated with the development of

information systems capability to support the production function of an organization. Review of information systems approaches to inventory control and work processing management.

MAN 429 – PRODUCTION CONTROL SYSTEMS (5)

The design of control systems for production operations automation and its impact on organizations. Integrated operational systems – simulation approach. Group and individual projects. Prerequisites: BUA 302 and 306.

MAN 430 – OPERATIONS PLANNING AND CONTROL (5)

The application of modern statistical and mathematical techniques to the planning and control of management systems. Emphasis will be placed on applications in forecasting, inventory, production scheduling and control, equipment selection and replacement, maintenance and materials handling. Prerequisite: BUA 302 and senior standing.

MAN 451 – INTERNATIONAL MANAGEMENT (5) (F,W,S)

Introductory survey in management issues that confront the multinational enterprise. At least one class session is devoted to each of the following topics: review of basic trade theory; tariffs and trade barriers; organizational transfer; foreign exchange; institutions affecting the multinational manager, such as IMF, IDB, Ex-In Bank, EEC, IBRD; international financial management; issues in multinational accounting; personnel management; comparative business customs and behavioral issues; export-import procedures; conflicts with national interests.

MAN 452 – INTERNATIONAL MANPOWER MANAGEMENT (5)

National, as well as international, manpower policies are examined. Current trends in international labor movements will be analyzed, particularly as they affect international labor mobility. Corporate policies in manpower planning are viewed in an environment of rapid economic and political changes.

MAN 453 – ORGANIZATION THEORY (5)

A comparative analysis of various theories or organization including the classical, biological, economic, and Cyert-March models and of their treatment of fundamental structure, conflict, communications, group and individual behavior and decision making. Primary emphasis on development an integrated philosophy of organization and management. Prerequisite: BUA 309 or Equivalent.

MAN 454 – INDUSTRIAL RELATIONS (5)

Organizational and economic analysis of the problems and issues arising out of legislative and judicial efforts to define the rights, duties and responsibilities of labor organizations and management in the fields of labor relations.

MAN 455 – LABOR MANAGEMENT AND COLLECTIVE BARGAINING (5)

The various options of settlement of labor-management disputes. Evaluation of the nature, institutions and processes of collective bargaining, the analysis of labor-management issues and their significance, and the character and procedures of arbitration, mediation fact finding and conciliation. The course deals also with the analysis of the labor market.

MAN 456 – BEHAVIORAL SCIENCE IN MANAGEMENT (5)

An analysis of selected concepts in behavioral science, their interaction and application to management. Topics include perception, motivation, and group behavior.

MAN 458 – SMALL BUSINESS MANAGEMENT (5)

The organization and operation of the small business – the accounting, finance, production and marketing subsystems. The use of analytical approach. Problems of manpower management and information flow. Possible use of EDP. Case Studies.

MAN 461 – INTERGROUP RELATIONS IN ORGANIZATIONS (5)

A study of the psychological and sociological dimensions of intergroup relations. Attention to the problems experienced by subgroups in large and small organizations with particular reference to ethnic, racial, and subcultural groups. The roles and responsibilities of management in the constructive resolution and utilization of inter-group conflict in organizations.

MAN 462 – DILEMMAS OF RESPONSIBILITY IN BUSINESS MANAGEMENT (5)

The use of interdisciplinary concepts and tools to develop and understand the moral and ethical dilemmas involved in business and corporate spheres of activity. Specifically attended to are issues such as pollution, consumer affairs, and quality of public facilities.

MAN 463 – PERSONNEL RECRUITMENT AND SELECTION

In depth study of the personnel staffing function. Included an analysis of objectives, techniques, and procedures for forecasting manpower needs, recruiting candidates, and selecting employees.

MAN 464 – WAGE AND SALARY ADMINISTRATION

Presents the theories and techniques used by management in the areas of work measurement, wage incentives, and job evaluation.

MAN 490 – BUSINESS RESEARCH METHODS IN ORGANIZATIONS (5)

Meaning of research and scientific methods. Forms of scientific method applicable to business research. Types of business research problems, and available types of methods and tools. Actual research procedures. Prerequisite: BUA 305, or equivalent.

MAN 493 – INDEPENDENT STUDY (1-10)

Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and Divisional Chairman required.

MAN 497 – SPECIAL TOPICS (1-10)

For groups of students who wish an intensive study of particular topic or a limited number of topics not otherwise offered in the curriculum. Consent of faculty supervisor and division chairman required.

MAN 511 – DETERMINISTIC MODELS FOR PROJECT MANAGEMENT (5)

How to model a project as a network, introduction to fundamental concepts of "critical path" methods, and application of specific PERT models.

MAN 513 – MANAGEMENT ANALYSIS IN HEALTH CARE INSTITUTIONS (5)

Basic theory and problem solving techniques including various methods of collecting, analyzing, reporting, and using information that can be made available to administrators of hospitals and other health care institutions.

MAN 514 – HEALTH CARE SYSTEMS (5)

Description of various health care administrative systems, discussion of various health care problems and programs. Quality of health care, group practice and prepayment programs.

MAN 515 – HEALTH PLANNING TECHNIQUES (5)

Basic health planning methods and procedures. Functions performed and special support techniques of hospital, medical public health, nursing homes, educational and similar associations. Prerequisites: 1 semester of basic statistics, HSM 304.

MAN 516 – HEALTH PLANNING VARIABLES (5)

A survey of the major variables relating to planning. The emphasis is upon exploring these systems as alternative approaches to planning which is conceived as a social-organizational process. The course treats planning as an individual, an organizational, a social, and a professional process.

MAN 517 – HUMAN RESOURCES MANAGEMENT IN HEALTH FACILITIES (5)

The personnel administration function in the Health facilities. Includes study of personnel policies and procedures; recruitment, training, and retention of employees; personnel relations and benefit programs; motivation in human productiveness; group costs, the study of labor relations in the health field.

MAN 530 – SYSTEMS ANALYSIS (5)

A study of the systems approach to problem solving as it applies to any area of specialization. Consideration of the problems in determining system objectives, identifying system boundaries and constraints, marshalling resources for achieving system objectives, analyzing the subcomponents of the system and their respective objectives, and managing the system.

MAN/PAD 534 – PUBLIC-PRIVATE COLLECTIVE BARGAINING (5)

Examines the labor force, labor markets, public manpower policy, and organizational manpower planning. Emphasis is given to recent developments in public and organizational policy.

MAN/PPS 541 – HUMAN INTERACTION I: PERSONAL GROWTH LABORATORY (5)

Experience designed to increase self-awareness of social impact, to increase sensitivity to the feelings of others, to improve interpersonal communication and increased understanding of the change-learning process. Study and analysis of class-group participation as well as other functional social groups.

MAN 550 – INFORMATION SYSTEMS IN ORGANIZATIONS (5)

Introduction to information systems and their role in organizations from a user's viewpoint. Survey and application of the basic concepts necessary for understanding information systems. Study of the main activities in the development cycle used to acquire information systems capability. Enrollment limited to students in the MIS Certificate Program.

MAN 551 – ANALYSIS OF INFORMATION REQUIREMENTS (5)

An in-depth study of the problems of determining effective information needs for systems users. Consideration of the development of data element dictionary capability, procedures for eliciting requirements and techniques for documenting requirement and report content. Enrollment limited to students in the MIS Certificate Program.

MAN 552 – DESIGN OF INFORMATION SYSTEMS (5)

An in-depth study of the problem of determining an efficient design to meet the requirements specified by the user. Consideration of the determination of alternative designs, selection of the "best" design and conversion of the design into programming specifications. Enrollment limited to students in the MIS Certificate Programs.

MAN 557 – PERSONNEL MANAGEMENT (5)

Attention is focused on the theory and practice of modern personnel management as related to other management functions. Topics include: selection, training, job and performance evaluation, and

incentive schemes. Special attention is devoted to human resources management and development at various organizational levels.

MAN 601 – SURVEY OF MANAGEMENT SCIENCE (5)
An introductory course that will examine model building and the methodology, techniques and tools of Management Science. A survey of the analytic models available will be included.

MAN 605 – DETERMINISTIC MODELS FOR MANAGEMENT ANALYSIS (5)
Applications of deterministic models such as linear and nonlinear programming, network analyses (PERT), dynamic programming, and branch and bound algorithms to managerial problems of allocation, planning, scheduling, investment, and control.

MAN 606 – STOCHASTIC MODELS FOR MANAGEMENT ANALYSIS (5)
Applications of probabilistic models such as queuing, inventory, and renewal to their managerial problems.

MAN 608 – INVENTORY MODELS FOR MANAGEMENT ANALYSIS (5)
The use of deterministic and probabilistic models to analyze and optimize inventory problems. The interrelations of inventory and production functions.

MAN 609 – QUEUING THEORY FOR MANAGERIAL DECISION (5)
The use of queuing theory to solve managerial problems related to waiting lines.

MAN 610 – APPLIED DYNAMIC PROGRAMMING FOR MANAGERIAL DECISIONS (5)
The use of dynamic programming techniques to optimize decisions related to allocation, investment, planning, and control.

MAN 611 – STOCHASTIC MODELS FOR PROJECT MANAGEMENT (5)
Review of deterministic models and principles, introduction to GERT, critical path methods, criticality index, and resource considerations in stochastic networks. Emphasis on operational decision-making, advanced topics and individual projects. Students will use the computer, and existing programs, to analyze/simulate hypothetical project networks and learn to interpret the results in order to facilitate operational decisions.

MAN 618 – ORGANIZATIONAL INFORMATION SYSTEMS (5)
Introduction to information systems and their role in organizations from a user's viewpoint. Survey and application of the basic concepts necessary for understanding information systems. Study of the main activities in the development cycle used to acquire information systems capability.

MAN 619 – SEMINAR IN MANAGEMENT SCIENCE (5)
New topics and new application areas will be explored. Lectures will

relate the latest advances in the theory and application of Management Science.

MAN 620 – SIMULATION OF MANAGEMENT SYSTEMS (5)

Basic concepts of computer simulation of systems. Application of these concepts to a variety of managerial problems. Industrial dynamics, urban dynamics, and large system simulation. Simulation in economic analysis. Heuristic methods, management games.

MAN 621 – INFORMATION REQUIREMENTS ANALYSIS (5)

An in-depth study of the problem of determining effective information needs for systems users. Consideration of the development of data element dictionary capability, procedures for eliciting requirements, and techniques for documenting requirement and report content.

MAN 622 – INFORMATION SYSTEMS DESIGN (5)

An in-depth study of the problem of determining an efficient design to meet the requirement specified by the user. Consideration of the determination of alternative designs, selection of the "best" design and conversion of the design into programming specifications.

MAN 639 – SEMINAR IN PRODUCTION CONTROL SYSTEMS (5)

The design of control systems for production operations automation and its impact on organizations. Integrated operational – simulation approach. Group and individual projects.

MAN/PPS 641 – HUMAN INTERACTION II: ORGANIZATIONAL CONSULTATION (5)

Theories and approaches to organization development and change with a particular focus on public schools and organizations. Laboratory supervision on systematic consultation and action skills, including methods of assessment (survey feedback, milling, confrontation meetings, systems analysis), agenda-setting, feedbacks, coaching, third-party consultation for conflict management, and team training. Prerequisite: MAN 541.

MAN 643 – PERSONNEL TRAINING AND DEVELOPMENT (5)

Determining training needs. Training methods. The training staff. Supervisor development. Equal Employment Opportunity Management.

MAN 644 – PERSONNEL SELECTION AND PLACEMENT (5)

Individual differences and their measurement in personnel selection and job placement. Job design and redesign. The learning process. Counseling and career guidance.

MAN 645 – WAGE AND SALARY ADMINISTRATION AND WORK MEASUREMENT

An in-depth analysis of wage and salary administration including

such topics as job evaluation, wage incentive systems, and work sampling.

MAN 650 – LABOR RELATIONS (5)

Examines the collective bargaining system in the United States, from the viewpoint of the practitioner. Various aspects of the environment, structure, processes, issues and impact of collective bargaining are considered. Special attention given to the negotiation and administration of agreements.

MAN 651 – GOVERNMENT AND INDUSTRIAL RELATIONS (5)

Survey of industrial relations law with special emphasis on the current status of union-management relations law. Covers the scope and content of current legislation, selected topics in applied labor relations law, and the role of the government.

MAN 652 – COLLECTIVE BARGAINING TOPICS (5)

An advanced course in labor relations for students with some background wishing more depth than that provided in introductory courses. Topics of contemporary interest, such as public sector collective negotiations are treated at length.

MAN 660 – INTERPERSONAL BEHAVIOR AND ANALYSIS (5)

A human interaction-human relations training laboratory designed to increase self-awareness and understanding of behavioral dynamics in groups. Course aims to enable students to broaden their conceptual understanding of human interpersonal communications and conflict. Enrollment is limited to fifteen students per section.

MAN 661 – GROUP PROCESSES IN ORGANIZATIONS (5)

The social psychological processes of organizational functioning. The roles played by small groups in organizational settings.

MAN 662 – ORGANIZATION DEVELOPMENT AND RENEWAL (5)

A study of approaches, processes, and technologies for effecting organizational change and improvement based on behavioral science principles and practices. Attention will also be given to behavioral science theory and interventions which tend to promote greater organizational health and renewal.

MAN 663 – CONFLICT IN ORGANIZATIONS (5)

A critical examination of the role and impact of interpersonal and intergroup conflict in organizations. Models and approaches to utilizing and resolving conflict toward constructive personal and organization ends will be emphasized.

MAN 680 – PROBLEM SOLVING IN HEALTH MANAGEMENT (5)

An examination of the quantitative and behavioral management tools as applied to actual cases. This course is designed to equip the student with logical decision making techniques in solving manage-

ment problems in health care facilities. Prerequisites: HSM 400, HSM 401 or equivalent.

MAN 682 – HEALTH AND SOCIAL SERVICE DELIVERY SYSTEMS (5)

Description of various health care delivery systems in the U.S. and other countries. The relationship to the social delivery system. Quality of health care, group practice and prepayment programs.

MAN 683 – THE HEALTH ENVIRONMENT (5)

The relationship of the health delivery system to public policies and legislation at various levels. The role of comprehensive health planning. The relationship to other public urban subsystems such as transportation, education, housing and pollution control.

MAN 684 – HEALTH CARE FACILITIES ORGANIZATION AND MANAGEMENT (5)

Analysis of the practical and dynamic aspects of health care facilities operation. Emphasis is given to basic organization of the facilities, the function of the Board of Directors, medical staff organization, the role of the administrator, and the management techniques used. Prerequisite: HSM 400 or equivalent.

MAN 685 – ACUTE CARE FACILITIES ORGANIZATION AND ADMINISTRATION (5)

Introduction to the organization and administration of acute care facilities. The course will provide opportunities to study the performance of hospitals and other health facilities through selected field experience.

MAN 686 – PLANNING FOR COMMUNITY HEALTH (5)

Designed for the student in the health management program. By focusing on contemporary health issues the course examines the community decision making approach to the study of planning and organizing the delivery of health services by demonstrating the relations between theoretical and sociopolitical aspects of comprehensive health planning. Prerequisite: MAN 515.

MAN 687 – SEMINAR IN HEALTH MANAGEMENT (1-5)

Consideration of selected problem areas in health management including policy formulation, executive development, and cost-benefit analysis. Prerequisite: Cosent of instructor.

MAN 690 – RESEARCH METHODS IN MANAGEMENT (5)

Covers the research methods and analytical techniques most widely used in research in human resources and general management. Emphasis is on helping students to become aware of current techniques and their applications.

MAN 691 – POLITICS IN ORGANIZATIONS (5)

The objective of this course is to give the student experience in an executive role in contemporary organizations. The stress is on human interaction, decision-making under pressure, and organizational politics.

MAN 693 – INDEPENDENT STUDY IN MANAGEMENT (1-10)

Individual conferences, supervised readings, reports on personal investigations. Consent of faculty sponsor and Division Chairman required.

MAN 694 – MASTER'S SEMINAR IN MANAGEMENT (1-5)

An examination of recent research findings in selected areas of current concern. Emphasis is placed on readings, active discussion, and small short-term action and research projects. Students may make a preliminary selection of the master's thesis or project topic.

MAN 695 – MASTER'S PROJECT IN MANAGEMENT (1-10)

Each student is required to develop and conduct an individual research project or thesis on a topic of interest. The topic shall be chosen in consultation with a faculty member in the School.

MAN 697 – SPECIAL TOPICS IN MANAGEMENT (5)

Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty tutor and Division Chairman required.

MAN 698 – INDEPENDENT RESEARCH (1-10)

An individualized research project, and report, which may include field experience with a firm or agency, library research, computer programming, or project development. Permission of the faculty advisor is required before registering for the course. The course should be taken during the last half of the student's graduate program.

MARKETING

MAR 404 – MARKETING MANAGEMENT (5)

An analytic approach to the performance of marketing management. The elements of the marketing mix as the focus of decision making in marketing are studied and the case method of instruction is employed.

MAR 405 – RETAILING MANAGEMENT (5)

An examination of the role of retailing in the marketing system. The course delineates the decisions made by retailing management and reviews the available strategies.

MAR 408 – INTERNATIONAL MARKETING I (5)

The course studies the information required by marketing managers to assist in satisfying the needs of consumers internationally. Special emphasis will be given to the constraints of the international environment.

MAR 410 – INTRODUCTION TO CONSUMER BEHAVIOR (5)

The course offers an introduction to the analysis of the consumer as the basis for the development of the marketing mix.

MAR 411 – INTRODUCTION TO MARKETING RESEARCH (5)

An examination of the marketing research process and its role in aiding decision making. Emphasis is placed on evaluation and utilization of research information in making marketing decisions.

MAR 415 – PROMOTION STRATEGY (5)

The course deals with problems of decision making in the areas of marketing communication methods, with primary emphasis on advertising.

MAR 416 – PERSONAL SELLING (5)

The development of effective salesmen/customer relationships is emphasized. Selection, training, and motivation of the sales force and the relationship between personal selling and the other elements of marketing strategy are analyzed.

MAR 417 – CHANNEL SYSTEMS (5)

The course focuses upon institutions, functions, and flows within channels of distribution and their integration into channels systems. Wholesaling and physical distribution activity are emphasized.

MAR 419 – PRINCIPLES OF TRANSPORTATION LOGISTICS (5)

(Same Course as TRA 409) Consideration of transportation logistics and its relationship to production and distribution; characteristics, management, legislation, and public regulation, applied to modes of transportation.

MAR 423 – INDUSTRIAL MARKETING (5)

Marketing in the intermediate consumer environment. Problems met it, and strategies for, marketing goods and services to commercial, industrial, and governmental markets.

MAR 429 – REAL ESTATE MARKETING (5)

(Same Course as RES 513) The course focuses upon application of marketing concepts and tools within the real estate industry.

MAR 431 – MARKETING AND THE LAW (5)

A policy and operational analysis of legislative acts and judicial interpretations of laws influencing organizations engaged in marketing activities.

MAR 433 – CURRENT ISSUES IN MARKETING I (5)

Intensive study of various topic areas in marketing. Course emphasizes student reading and research with oral and written reports. Students electing to take this seminar may take no more than 5 credit hours of independent study in marketing.

MAR 434 – CURRENT ISSUES IN MARKETING II (5)

Students electing to take this seminar may not take independent study in marketing. Prerequisite: MAR 433.

MAR 441 – MARKETING OF SMALL BUSINESS/ENTERPRISES (5)

Designed to develop an understanding of the principles and practices which contribute to the successful marketing operation of a small business enterprise, this course deals with marketing policies, techniques and applications to aid the entrepreneur in this field.

MAR 451 – MARKETING FOR NON-PROFIT ORGANIZATIONS (5)

Marketing techniques as applied in non-profit organizations, including but not limited to, the marketing of such governmental programs as housing, education, health services, transportation, and Social Security.

MAR 461 – MARKETING MODULES I (1)

MAR 462 – MARKETING MODULES II (1)

MAR 463 – MARKETING MODULES III (1)

MAR 464 – MARKETING MODULES IV (1)

MAR 465 – MARKETING MODULES V (1)

A series of one credit hour "mini-courses" which consider various topics in marketing and marketing management. The particular topics treated are at the option of the instructor.

MAR 490 – MARKETING GAME COMPETITION (5)

Focal point of the course is a computerized marketing management simulation. The course provides an opportunity for the student to participate as a member of the marketing management team of a firm in competition with other firms.

MAR 493 – INDEPENDENT STUDY IN MARKETING (1-10)

Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and divisional chairman required.

MAR 494 – MARKETING INTERNSHIP (1-10) **(F,W,S,SS)**

Full-time supervised work in a selected organization. Prerequisites: At least twenty (20) hours in Marketing, consent of instructor and divisional chairman.

MAR 497 – SPECIAL TOPICS IN MARKETING (1-10) (F,W,S,SS)
Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and divisional chairman required.

MAR 505 – PROMOTIONAL STRATEGY (5)
The course deals with problems of decision making in the areas of marketing communication methods, with primary emphasis on advertising. Discussion of the role of promotion in relation to the other elements of marketing management.

MAR 506 – INTERNATIONAL MARKETING II (5)
The course studies the information required by marketing managers to assist in satisfying the needs of consumers internationally. Special emphasis will be given to the constraints of the international environment.

MAR 509 – PERSONAL SELLING (5)
The development of effective salesmen/customer relationships is emphasized. Selection, training, and motivation of the salesforce and the relationship between personal selling and the other elements of marketing strategy are analyzed.

MAR 531 – MARKETING AND THE LAW (5)
A policy and operational analysis of legislative acts and judicial interpretations of laws influencing organizations engaged in marketing activities.

MAR 541 – MARKETING OF SMALL BUSINESS/ENTERPRISES (5)
Designed to develop an understanding of the principles and practices which contribute to the successful marketing operation of a small business enterprise, this course deals with marketing policies, techniques and applications to aid the entrepreneur in this field.

MAR 551 – MACRO-MARKETING (5)
Marketing techniques as applied to the public sector (federal, state, and local), including, but not limited to, the marketing of such governmental programs as housing, education, health services, transportation, and Social Security.

MAR 570 – ADVANCED SERVICE MARKETING (5)
A study of the role of marketing management in service industries with special emphasis on the hospitality industry. Contributions from consumer behavior and marketing research are treated in terms of their value as aids to managers in service industries. Current management problems faced by the hospitality industry, particularly in the Miami area, are dealt with from a marketing point of view.

MAR 593 – INDEPENDENT STUDY IN MARKETING (1-10)

Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and Divisional Chairman required.

MAR 597 – SPECIAL TOPICS IN MARKETING (1-10)

Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Divisional Chairman required.

MAR 600 – GRADUATE SURVEY OF MARKETING (5)

A study of analysis, planning, and control of programs designed to bring about marketing exchanges. The course focuses on decisions concerning product, price, place, and promotion.

MAR 610 – CONSUMER BEHAVIOR (5)

Modern comprehensive models of consumer behavior is utilized as a framework for understanding consumer decision processes.

MAR 611 – INTERNATIONAL MARKETING III (5)

This course discusses the nature and scope of international marketing and explores multinational problems facing firms and other international marketing organizations, together with strategies for foreign market penetration.

MAR 612 – MARKETING RESEARCH (5)

The role of research in providing information for marketing decision making including an examination of the research process and the tools available to the researcher.

MAR 613 – QUANTITATIVE METHODS IN MARKETING (5)

A study of the quantitative reasoning process and its usefulness for marketing decision making. Each of the major decision areas in marketing is examined using existing quantitative models as aids to understanding marketing processes.

MAR 615 – PROMOTION STRATEGY (5)

The course focuses on planning, problem-solving and decision-making as they apply to promotion programs. Primary emphasis is on advertising with discussion of the role of promotion in relation to other elements of the marketing program.

MAR 633 – CURRENT ISSUES IN MARKETING I (5)

Intensive study of various topic areas in marketing. Course emphasizes student reading and research with oral and written reports. Students electing to take this seminar may take no more than 5 credit hours of independent study in marketing.

MAR 634 – CURRENT ISSUES IN MARKETING (II) (5)
Students electing to take this seminar may not take independent study in marketing. Prerequisite: MAR 633.

MAR 690 – MARKETING GAME COMPETITION (5)
Emphasis in the course is upon application and integration of concepts and tools through participation in the marketing management of a firm in competition with other firms. The course's focal point is a computerized marketing management simulation.

MAR 693 – INDEPENDENT STUDY IN MARKETING (1-10)
Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and Divisional Chairman required.

MAR 695 – MASTER'S PROJECT (5)
An individualized research project, and report, which may include field experience with a firm or agency, library research, computer programming, or project development. Permission of the faculty advisor is required before registering for the course. The course should be taken during the last half of the student's graduate program.

MAR 697 – SPECIAL TOPICS IN MARKETING (1-10)
Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Divisional Chairman required.

PUBLIC ADMINISTRATION

PAD 301 – FINANCING PUBLIC ORGANIZATIONS (5)
Financial management in public organizations. The securing of funds through taxes and bond issues, the management of funds and expenditure decisions.

PAD 305 – ADMINISTRATIVE STATISTICS AND DATA SYSTEMS (5)
Quantitative techniques useful to the public administration non-parametric techniques, probability concepts and decision techniques are presented as well as concepts underlying use of data systems.

PAD 310 – ORGANIZATIONAL GROUP PROCESSES (5)
The impact of various organizational climates, tasks, roles and reward systems on the behavior of both the individuals and groups of employees in public organizations. Particular attention to alienation and motivation in job effectiveness and Public Service.

PAD 312 – NATIONAL POLICY AND ITS ADMINISTRATION (5)
Contemporary theories of policy analysis; the role of social,

political, and cultural theories as they apply to the analysis and administration of public policies.

PAD 320 – PERSONAL GROWTH AND ADMINISTRATIVE DEVELOPMENT (5)

The administrator as a person development of interpersonal skills. Self evaluation and career planning, training and education for the public service sector.

PAD 321 – ADMINISTRATORS AND THE LEGISLATIVE PROCESS (5)

A study of executive-legislative interactions; the impact of legislation and legislative processes on administrative policy decision-making and implementation; influence of administration on the legislating process.

PAD 325 – INTERNATIONAL COMPARATIVE ADMINISTRATION (5)

This course is conceived as introductory to a wide range of scholarly and practical ("applied") interests. Emphasis on institution building and development administration particularly within the third world countries.

PAD 400 – INTRODUCTION TO PUBLIC ADMINISTRATION (5)

The function of Administrative Institutions in Society; the growth of administration through the bureaucratic model both as an art and science; contemporary and comparative forms and theories of organization and responsibilities of public servants.

PAD 401 – ADMINISTRATIVE INTERACTION IN THE PUBLIC SECTOR (5)

Definition and analysis of administrative interfaces with multiple and varied public and private organizations. A study of the role expectations, pressures, and opportunities of the administrator in a complex environment.

PAD 402 – POLITICS OF ADMINISTRATIVE ORGANIZATION (5)

The role of political processes in relationship to public organizations and the types of intra- and inter-organizational politics which are unique to public organizations. Effects of these political processes upon organizational performance and their role in promoting or thwarting organizational change.

PAD 403 – PERSONNEL ADMINISTRATION (5)

The general nature of public personnel administration, the development of the civil service system, concepts and issues currently applicable at the Federal, State and Local levels of government.

PAD 404 – ORGANIZATION AND ADMINISTRATIVE THEORY (5)

History and development. Historical survey of theories of public organization and of contemporary and emerging theories. With

special attention to the role of bureaucratic theory. Case investigation of manifested influence of the bureaucratic model in its various forms at Federal, State and local government levels.

PAD 408 – PUBLIC CHOICE? (5)

Some historical analysis on the origin and concept of the public interest in Public Administration. Its various formulations as a concept and its contemporary interpretations. Specific role definitions and concepts of the public interest and public policy.

PAD 410 – VALUES, ETHICS AND MORALITY IN CHANGING SOCIETY (5)

Theories of value; ethical systems and their influence of administration behavior and process; the administrator as an ethical actor; value conflict and resolution; philosophical bases of American thought.

PAD 428 – BUDGETS AND THE ADMINISTRATIVE PROCESS (5)

The theory and practice of various approaches to budgeting e.g. time-item, performance, program and PPBS budgeting. Special emphasis upon the role of the budget in shaping the performance and policy direction of public organizations.

PAD 518 – THE ADMINISTRATOR AND THE ROLE OF WOMEN (5)

The course is designed for women and men who are interested in moving into management positions, or who have done so, and want to broaden their understanding of the changing role of women. Many organizations are feeling pressures to hire or promote women. Since both women and men are anxious to prepare themselves for the implications of such a move, classes will allow for experiential as well as academic exploration of the issues.

PAD 534 – PUBLIC AND PRIVATE SECTOR COLLECTIVE BARGAINING (5)

This course deals with the nature and implications of collective bargaining for managers and employees in, and students of, public and private sector organizations. The course emphasizes similarities and differences between the private and public sectors as they apply to collective bargaining.

PAD 550 – VALUES AND TECHNOLOGY IN A POST WOODSTOCK GENERATION (5)

Surveys value and technology interrelationships. Examines societal value structures and how technology creates alternatives to our existing value assumptions. Also, future forecasting techniques will be examined. Such explorations can help us clarify our own hopes, fears and expectations as to our best societal and individual options.

PAD 610 – ORGANIZATION DEVELOPMENT AND CHANGE (5)

Contemporary approaches to improving the overall effectiveness of public organizations through the utilization of the applied behavioral

sciences. Personal and executive development programs, team building, action research, etc. Survey of research on the effects of organization development programs with special reference to public organizations.

PAD 611 – DECISION MAKING THEORY AND PRACTICE (5)

Special focus on the public sector and the decision matrix faced by administrators, attention given to relevant quantitative techniques and the various ways information is utilized to make decisions in various contexts of public administration.

PAD 612 – ORGANIZATION INFORMATION SYSTEMS AND PUBLIC POLICY IN PUBLIC ADMINISTRATION (5)

This course focuses on organization information systems in the public sector and looks specifically at the uses and sources of public information, as well as the role of the information systems specialist in the decision-making process. Specific study is done on the development of public documents and information tracks from statistical information sources that are common to federal, state, and local government. The course examines the way in which public documents support pro and con decision positions for public and private administrators. It looks at reasons for collecting the data, procedures for collecting the data, and varied uses of the data by specialists for public and private purposes.

PAD 616 – DEVELOPMENT ADMINISTRATION (5)

The role of public administration in national development, with specific attention to theories of economic aid from external countries and the effects of this aid. The scope of the problem of development. Theories and policies of underdevelopment are explored and particular attention is given to the role and methods of the United States has followed in development administration in relation to selected countries.

PAD 617 – INTERNATIONAL PUBLIC ADMINISTRATION (5)

The role of international Public Administration Systems and the impact of political, socio-cultural frameworks on administration. Focus on national and state organized politics and economics; problems or possibilities. A depth review of scope and programs of contemporary international public administrative organizations.

PAD 619 – PERSONAL GROWTH AND PROFESSIONAL DEVELOPMENT (5) DEVELOPMENT (5)

The administrator as an individual; processes for the development of interpersonal and group skills; self-evaluation and career planning; training and education for the public service sector.

PAD 620 – PUBLIC ADMINISTRATION AND THEORIES OF ORGANIZATION (5)

Historical survey of theories of public organization and of

contemporary and emerging theories. Special attention to the role of bureaucratic theory in public administration and the way this theory has manifested itself in various concrete ways. Consideration of the theories behind various forms of federal, state and local organizations.

PAD 621 – PERSONNEL ADMINISTRATION AND BUDGETING (5)
A combined course with dual perspectives and interrelationships of personnel and budgeting systems. Focus is on manpower management in personnel systems for the public service and the management of the budgetary systems. The planning and allocation of both human fiscal resources. The budget as a political instrument; dynamics of administrative-legislative negotiations, strategies and behavior of the administrator in securing and allocation of human and fiscal resources.

PAD 624 – DYNAMICS OF INDIVIDUAL GROWTH (5)
This course focuses on the importance of small group theory to the personal growth of the administrator and the role of interpersonal abilities in more effectively serving client groups. The course also deals with the expansion of the phenomenological world view of each student and with a look at existential theory and the dilemma of personal growth.

PAD 625 – THE PUBLIC INTEREST AND THE PUBLIC TRUST (5)
The course will attempt to analyze the meaning of the public interest from an inter-disciplinary focus using both experiential and cognitive tools. What it is if it does exist; what it might be if it should exist; why should we care in the first place. For anyone who does or might want to use the "public" as a justification, particularly in administrative action.

PAD 628 – BUDGETS, CONTROL AND ADMINISTRATION (5)
The theory and practice of public budgeting and its relationship to the administrative processes of control, management and planning. Special emphasis will be given to the elements of Planning-Programming-Budgeting Systems (PPBS) and the issues of PPBS development. The course uses the atmosphere of a small group setting to project and simulate organizational team approaches to both individual and organizational problems. It provides an opportunity for each student to experience personal feedback relevant to him or her as a person in a simulated application of small group theory and interpersonal abilities on organizational issues and situations.

PAD 631 – SOCIETAL CLIENT SYSTEMS AND OUR COURTS (5)
An in-depth look at the interactions of the social service action agencies of the federal, state, and local government, and how the court system at each of these levels communicates and administers

the policy of the social action agencies in the various communities they serve. Equity and power questions are studied, also the various methods of control available to courts and interest groups are examined in relation to the power points existing in our pluralistic democracy.

PAD 675 – ADMINISTRATION AND CLIENT GROUPS (5)
Who is the administrator's real client? A study of the multiple interfaces an administrator must deal with daily; legislators, businessmen, other agencies, subordinates, superiors, community.

PAD 676 – PLURALISM AND DEMOCRACY IN ADMINISTRATION (5)
Several of the more important relationships in which the various institutions in the public and private sectors interact will be analyzed. The role of the administrators in this interacting process will be emphasized.

PAD 677 – ORGANIZATIONAL BEHAVIOR IN COMPLEX PUBLIC STRUCTURES (5)
A close look at the complex inter-relationships existing between formal and informal socio-technical systems in the public sector. The role of organizational and individual behavior within this complex matrix we live and work in is explored, looking at theories and practice.

PAD 678 – ORGANIZATIONAL CHANGE IN MODERN SOCIETY (5)
Examines the organizational and structural frameworks that create the parameters for individuals in society. Specific attention is given to theory of planned change. How the individual as the organizational entity relates to specific functional definitions is explored.

PAD 679 – POLICY ANALYSIS AND ADMINISTRATIVE PROCESS (5)
A framework for evaluating public policymaking will be presented. The emphasis will be upon criteria and methodologies available for choosing among alternative courses of action. The systems approach, alternative futures and Nth order consequences or policies will be analyzed.

PAD 681 – RESEARCH METHODOLOGY IN ADMINISTRATION (5)
Theories and concepts of research evaluation, design, and formulation. Strategies and methodological tools for conducting research. What is the role of research in administrative decisions and in testing ways to implement public policy? A review of contemporary critiques on research design.

REAL ESTATE

RES 390 – INTRODUCTION TO REAL ESTATE (5) (F)
Decision making processes for development, financing, marketing,

and management of real estate space; economics of regional development and urbanization; public policy issues concerning urban environment and the real estate business. Prerequisite to all other courses in real estate and regional development.

RES 391 – LEGAL ENVIRONMENT OF REAL ESTATE (5) (W)
Legal environment of real property ownership, transfer and brokerage; estates in land; sales contracts; mortgage transactions; title; conveyances; landlord and tenant; restrictions and zoning, eminent domain. Prerequisite: RES 390 or permission of instructor.

RES 493 – INDEPENDENT STUDY IN REAL ESTATE (1-10) (F,W,S,SS)
Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and divisional chairman required.

RES 497 – SPECIAL TOPICS IN REAL ESTATE (1-10) (F,W,S,SS)
Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and divisional chairman required.

RES 500 – REAL ESTATE FINANCE (5)
Financial analysis and structuring of real estate projects; traditional and creative concepts and mechanisms for the construction financing and permanent financing of residential and income producing property. Prerequisite: RES 390 or permission of instructor.

RES 503 – REGIONAL DEVELOPMENT (5)
Measurement and forecasting of economic activity in an urban/regional context; factors influencing economic growth and land allocation. Prerequisite: RES 390 or permission of instructor.

RES 505 – URBAN LAND PLANNING AND USE (5)
Theories of city growth and structure; operations of the real estate market in land allocation; application of above concepts to current practices in city and regional planning. Prerequisite: RES 390 or permission of instructor.

RES 507 – VALUATION OF REAL ESTATE (5)
Valuation and appraisal framework applied to residential and income producing property; role of computers; valuation theory and process as a guide to business decisions. Prerequisite: RES 390 or permission of instructor.

RES 508 – REAL ESTATE LAW (5)
Legal environment of real property ownership, transfer and brokerage; estates in land; sales contracts; mortgage transactions; title; conveyance; landlord and tenant; restrictions and zoning; eminent domain.

RES 509 – REAL ESTATE INVESTMENT (5)

Fundamentals of acquisition, ownership, and disposition of investment property; taxation and tax shelter; cash flow projections; analysis of specific types of investment property, utilization of computers as a decision-making tool. Prerequisites: RES 390 or permission of instructor.

RES 511 – URBAN LAND ACQUISITION AND DEVELOPMENT (5)

Real estate development: acquisition of raw land; zoning, subdivision into sites; provision of utilities and services; financing; merchandising of improved sites; emphasis on design and development of residential communities. Prerequisite: RES 390 or permission of instructor.

RES 513 – REAL ESTATE MARKETING (5)

Organization and operation of a real estate brokerage office, including selection, training and financing of sales personnel; obtaining and controlling listings; process and methods involved in the selling of real estate; promotion activities, including advertising and public relations; growth problems; professionalism; ethics. Prerequisite: RES 390 or permission of instructor.

RES 515 – REAL ESTATE MANAGEMENT (5)

Theories and techniques of professional management of real estate; creating a management plan; merchandising space; economics of alternates; market analysis; the maintenance process; owner-tenant-manager relations; operating budgets tax consideration; ethics. Prerequisite: RES 390 or permission of instructor.

RES 592 – REAL ESTATE AND REGIONAL DEVELOPMENT POLICY (5)

A capstone course in integrating all aspects of real estate and regional development learned in previous courses; projects, cases and field trips; to be taken in senior year. Prerequisite: Permission of instructor.

RES 600 – GRADUATE SURVEY OF REAL ESTATE (5)

Advanced study of the development, financing, marketing, and management of real estate resources; economics or regional development and urbanization; current problems and issues concerning the urban environment and the real estate business.

RES 670 – INCOME PROPERTY APPRAISAL (5)

Valuation and appraisal framework applied to income properties; capitalization; rates and techniques; discounting and compound interest; mortgage-equity analysis; Ellwood analysis; role of computers; valuation as a guide to business decisions.

RES 671 – INDUSTRIAL REAL ESTATE I (5)

General overview of industrial real estate focusing on types of activities; locational requirements; financing techniques; brokerage;

governmental influence; current trends; technological change; characteristics of industrial buildings.

RES 672 – INDUSTRIAL REAL ESTATE II (5)
Introduction to investment and valuation problems in industrial real estate; topics include taxation and investment analysis; discounted cash flow techniques; appraisal framework applied to income properties; computer will be utilized in approaching the above problems.

RES 673 – INDUSTRIAL REAL ESTATE III (5)
Advanced case studies and field projects in industrial real estate; topics include impact of ecological and environmental legislation and regulations; industrial park development; rehabilitation and conversion feasibility; property management.

RES 674 – INDUSTRIAL BROKERAGE (5)
Distinctions between industrial brokerage and general real estate brokerage; role and functions of the industrial broker; industrial brokerage practice; negotiating and leasing; regulations and ethics.

RES 675 – SEMINAR IN INTERNATIONAL REAL ESTATE (5)
Current trends and issues affecting industrial real estate on an international level; topics include the multi-national corporation and its location decisions; foreign taxation; international trade and exchange rates.

RES 685 – SEMINAR IN REAL ESTATE FINANCE (5)
A study of financial institutions, their methods, and interregional flows of funds in mortgage markets. Further emphasis placed on national economic policies affecting mortgage markets. Prerequisite: permission of instructor.

RES 686 – SEMINAR IN REAL ESTATE VALUATION THEORY AND PRACTICE (5)
A study of the process of property valuation utilizing cost, market and income approaches. The role of computers and mass appraisal techniques will also be examined. Prerequisites: Graduate standing and permission of instructor.

RES 687 – REGIONAL PLANNING AND DEVELOPMENT (5)
Methods of measuring and forecasting economic activity and issues in allocating urban land. Techniques for analysis of government policies affecting urban growth and development. Prerequisite: Graduate standing and permission of instructor.

RES 688 – SEMINAR IN URBAN HOUSING POLICY AND PROBLEMS (5)
Examining national housing policies and their formulation. The role of the public and private sectors in regard to housing problems.

Effectiveness of housing policies. Prerequisites: RES 687 and permission of instructor.

RES 689 – SEMINAR IN REAL ESTATE INVESTMENT AND TAXATION (5)
The techniques of real estate investment analysis utilizing present value and cash flow approaches. The impact of Federal taxation on real estate investment decision. Prerequisite: Graduate standing and permission of instructor.

RES 693 – INDEPENDENT STUDY IN REAL ESTATE (1-10)
Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and Divisional Chairman required.

RES 695 – INDUSTRY PROJECT (5)
Advanced individual or group study of specialized problems in the real estate field. Guidance of study to be provided by Real Estate faculty. Prerequisites: Permission of adviser.

RES 697 – SPECIAL TOPICS IN REAL ESTATE (1-10)
Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Divisional Chairman required.

TRANSPORTATION

TRA 405 – TRANSPORTATION SYSTEMS AND SERVICES (5) (F)
Survey and analysis of transportation modes including rail, motor, air, water, pipeline, and mass transit and their impact on the social and economic systems; current problems.

TRA 406 – MASS TRANSPORTATION AND URBAN PROBLEMS (5) (W)
Urban and metropolitan transportation development and requirements; benefits and costs of alternative approaches to mass transit; management techniques and operating principles; policy and regulation.

TRA 409 – PRINCIPLES OF TRANSPORTATION LOGISTICS (5) (F)
Consideration of transportation logistics and its relationship to production and distribution; characteristics, management, legislation, and public regulation, applied to modes of transportation.

TRA 410 – TRANSPORTATION RATE MAKING (5)
Description and analysis of rate making for both passenger and cargo in the various modes of transportation including trucks, railroad, airlines, and ocean transportation. Classes may concentrate on one particular mode for practical applications. This will be a five (5) hour course.

TRA 492 – TRANSPORTATION POLICY (5) (W)

Consideration of national transportation policy; principle policy issues currently facing the transportation modes.

TRA 493 – INDEPENDENT STUDY IN TRANSPORTATION (1-10) (F,W,S,SS)

Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and divisional chairman required.

TRA 495 – TRANSPORTATION INTERNSHIP (1-10) (F,W,S,SS)

Full time supervised work in a selected organization. Prerequisites: At least twenty (20) hours in Transportation, consent of instructor and divisional chairman.

TRA 497 – SPECIAL TOPICS IN TRANSPORTATION (1-10) (F,W,S,SS)

Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and divisional chairman required.

TRA 501 – PUBLIC UTILITY PRINCIPLES (5)

An analytical and descriptive survey course treating the historical development of public utilities; the economics, legal environment, and organization of public utilities is discussed and analyzed; regulation theory as it applies to electric, gas, water, and communications industries.

TRA 507 – TRANSPORTATION OPERATIONS AND CARRIER MANAGEMENT (5)

Contemporary management techniques as applied to carriers; emphasis on management problems peculiar to transportation firms; economic analysis of marketing problems, capital formation, costs, pricing, labor relations, and government regulation.

TRA 508 – TRANSPORTATION REGULATION AND POLICY (5)

Economic and constitutional basis of transport regulation; regulational of industrial traffic and transport modes; scope of regulation; structure and policies of Federal and State regulatory agencies.

TRA 509 – PHYSICAL DISTRIBUTION MANAGEMENT (5)

Distribution in overall company operations; organization of the traffic function; determination of classification and rates; integration of transportation with production flow, inventory management, warehousing, marketing policies, and plant location.

TRA 510 – TRANSPORTATION RATE MAKING (5)

Description and analysis of rate making for both passenger and cargo in the various modes of transportation including trucks, railroad, airlines, and ocean transportation. Classes may concentrate on one particular mode for practical applications. This will be a five (5) hour core.

TRA 515 – TRANSPORTATION LOGISTICS (5)

Quantitative methods applied to solving problems in business logistics; mathematical and statistical models; optionization theory and simulation. Problems selected from areas of physical distribution management, inventory control, mode selection, and facility locations.

TRA 600 – SURVEY OF TRANSPORTATION MANAGEMENT (5)

Graduate survey of transportation, its elements, and their impact on society. History, economics, and regulatory principles. Current policies and problems for all the major transportation modes.

TRA 605 – MANAGEMENT OF TRANSPORTATION SYSTEMS AND SERVICES (5)

Survey and analysis of transportation modes including rail, motor, air, water, pipeline, and mass transit and their impact on the social and economic systems; current problems.

TRA 606 – MANAGEMENT OF MASS TRANSPORTATION AND URBAN PROBLEMS (5)

Urban and metropolitan transportation development and requirements; benefits and costs of alternative approaches to mass transit; management techniques and operating principles; policy and regulation.

TRA 609 – TRANSPORTATION LOGISTICS (5)

Consideration of transportation logistics and its relationship to production and distribution; characteristics, management, legislation, and public regulation, applied to modes of transportation.

TRA 615 – PHYSICAL DISTRIBUTION MANAGEMENT (5)

Distribution in overall company operations; organization of the traffic function; determination of classification and rates; integration of transportation with production flow, inventory management, warehousing, marketing policies, and plant location.

TRA 692 – TRANSPORTATION POLICY (5)

Consideration of national transportation policy, principle policy issues currently facing the transportation modes.

TRA 693 – INDEPENDENT STUDY IN TRANSPORTATION (1-10)

Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and Divisional Chairman requires.

TRA 697 – SPECIAL TOPICS IN TRANSPORTATION (1-10)

Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Divisional Chairman required.

URBAN AND REGIONAL AFFAIRS

URB 401 – THE URBAN SCENE (5) **(F)**

Introductory course to the urban phenomenon; historical and contemporary consideration of cities; functions and purposes of cities; economic, social, and cultural aspects of urbanization.

URB 405 – PLANNING AND MANAGEMENT IN AN URBAN ENVIRONMENT (5) **(W)**

General examination of selected aspects of the urban environment that are becoming concerns for policy makers; topics covered include growth and development of urban and metropolitan areas, housing and transportation, the inner city, poverty and racial problems, and urban finance and politics. The purpose is to sharpen conceptions of how business is involved in the urban scene, and what steps it can make to ameliorate it.

URB 415 – URBAN AND REGIONAL ANALYSIS (5) **(SS)**

Theories of urban and regional growth; economics of location and agglomeration; urban and regional social accounting, economic base analysis, input-output models, gravity models, and linear-programming. Urban structure and performance.

URB 416 – URBAN PROBLEMS AND POLICIES (5) **(S)**

Consideration of the scope of the urban agenda; selected problems of contemporary cities; use of benefit-cost analysis, program planning and evaluation, non-market decision making, user charges, and externalities in an urban environment; interrelation of private and public sectors in managing aspects of the urban system; role and contributions of planners and other professionals.

URB 493 – INDEPENDENT STUDY IN URBAN AND REGIONAL AFFAIRS (1-10) **(F,W,S,SS)**

Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and Divisional Chairman required.

URB 497 – SPECIAL TOPICS IN URBAN AND REGIONAL AFFAIRS (1-10) **(F,W,S,SS)**

Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Division Chairman required.

URB 503 – COMPARATIVE URBAN SYSTEMS (5)

Comparative analysis of the major characteristics, similarities, and differences of the urban process as manifested in the United States and abroad.

***URB/UPT 505 – URBAN DESIGN (5)**

Relationship of cities and space; design for urban living; architectural

and other aesthetic considerations; human welfare and urban structure; planning methods in the private and public sectors; performance evaluation.

URB 510 – URBAN GEOGRAPHY (5)
Geographical approach to city systems; consideration of the contribution of geographers to urban analysis; field project.

***URB/UPT 511 – URBAN LAND USE PLANNING (5)**
Elements of the general land use plan; location and space requirements; the use of models in planning; development of the land use plan; policy plan; implementation.

URB 525 – INNER CITY DEVELOPMENT (5)
Analysis of contemporary inner city development in America; consideration of minority business enterprise and its relationship to the mainstream of American economic life; exploration of present and alternative institutional forms for minority enterprise; problems and solutions.

URB 535 – URBAN DEMOGRAPHY (5)
Detailed analysis of demographic methods applied to the urban environment.

URB 585 – FACULTY-STUDENT WORKSHOP IN URBAN STUDIES (5)
Urban studies workshop that gives faculty and students an opportunity to present reports on their current research and listen to invited researchers in urban affairs.

URB 600 – SURVEY OF URBAN AFFAIRS (5)
Graduate level survey course, encompassing the dynamics of the urban environment, including urban form and structure, land use patterns, housing, transportation, education, poverty and race, and other policy and problem considerations. Implications of management decisions.

URB 605 – PLANNING AND MANAGEMENT IN AN URBAN ENVIRONMENT (5)
General examination of selected aspects of the urban environment that are becoming concerns for policy makers; topics covered include growth and development of urban and metropolitan areas, housing and transportation, the inner city, poverty and racial problems, and urban finance and politics. The purpose is to sharpen conceptions of how business is involved in the urban scene, and what steps it can make to ameliorate it.

*Dual listing with the School of Technology.

***URB/UPT 615 – URBAN AND REGIONAL ANALYSIS (5)**

Theories of urban and regional growth; economics of location and agglomeration; urban and regional social accounting, economic base analysis, input-output models, gravity models, and linear programming. Urban structure and performance.

URB 616 – URBAN PROBLEMS AND POLICIES (5)

Consideration of the scope of the urban agenda; selected problems of contemporary cities; use of benefit-cost analysis, program planning and evaluation, non-market decision making, user charges, and externalities in an urban environment; interrelation of private and public sectors in management aspects of the urban system; role and contributions of planners and other professionals.

URB 693 – INDEPENDENT STUDY IN URBAN AND REGIONAL AFFAIRS (1-10) (F,W,S,SS)

Individual conferences, supervised readings, reports on personal investigations. Consent of faculty tutor and Divisional Chairman required.

URB 697 – SPECIAL TOPICS IN URBAN AND REGIONAL AFFAIRS (1-10) (F,W,S,SS)

Intensive study for groups of students of a particular topic or a limited number of topics, not otherwise offered in the curriculum. Consent of faculty supervisor and Division Chairman required.

*Dual listing with School of Technology.

School of Education

Dean G. Wesley Sowards

The School of Education offers both undergraduate and graduate degree programs that meet requirements for certification to be employed as a teacher, counselor, school psychologist, supervisor, or principal in Florida schools.

Consistent with the location and the mission of the University, every effort is made in all degree programs to recognize the urban and multicultural context in which schools in South Florida operate, and the commitment of the University to international understanding. The School of Education also provides service to schools and other educational agencies in South Florida on a variety of programmatic and operational matters with which they must deal. Research and development activities are carried out by the faculty to improve the effectiveness of both the School's personnel development and service missions.

To carry out its educational mission within the University, the School of Education has been organized into five major divisions, each responsible for specific undergraduate and graduate programs leading to bachelor and master degrees and appropriate professional certification. Detailed information on each of these Divisions and their programs is set forth later in this section of the catalog. Also, the School of Education maintains an Office of Student Information and Advisement (D.M. 392); and prospective students are invited to direct inquiries there for general information on careers in Education and on the program in which they are interested.

ADMISSION

Undergraduate Students: The School of Education will accept as undergraduates those who hold an Associate in Arts degree, or its equivalent, and will provide them with a program leading to the bachelor's degree and teacher certification. Entering students are not required to have been enrolled in a pre-teaching program. Students having an Associate in Science degree will enroll initially in either the School of Education or the College or Arts and Sciences (Liberal Studies Curriculum), depending on the program they seek to enter.

Graduate Students: Students applying for admission to graduate study must meet the criteria used in The State University System of Florida. Presently these are either a 3.0 or "B" average in the upper division or a combined score of 1,000 on the Graduate Record Examination (verbal and quantitative aptitude sections). All applicants to the School of Education—even those with a "B" or better average—are required to submit GRE scores. These scores will be used in the admission process and for counseling purposes. Under certain circumstances, it is possible to submit GRE scores after having been admitted and during the first quarter of registration.

Special Note — All Master of Science degree programs have admission stipulations that include one or more prior professional training and/or experience requirements, in addition to the undergraduate academic record and/or Graduate Record Examination test scores. Students should consult with the Division office in the School of Education that is responsible for the major in which they are interested before applying for graduate admission to the University.

GENERAL PROGRAM DESIGN — Undergraduate

Undergraduate courses offered by the School of Education are designed to be performance-or-competency-based. To the extent possible, they also allow for student progress to be self-paced. Typically, all courses include a requirement to spend time in the field in schools as well as class time on campus.

The typical undergraduate will complete 90 quarter hours in study at Florida International University, and all are expected to complete the last 45 hours of their undergraduate study at Florida International University. Twenty quarter hours taken as a Special Student at the University may be applied to an undergraduate degree program if the work is applicable to the student's major.

Foundations of Education Requirement: Teacher certification regulations in Florida require completion of one course in the Social and one course in the Psychological Foundations of Education. Courses that meet this requirement are offered in the Community College and students are urged to complete them before enrolling at Florida International University. Otherwise, courses in these two areas must be completed here and should be taken in the first quarter of registration. The following courses offered at Florida International University meet this requirement.

Psychological Foundations		CREDITS
PSY 307	— Human Growth and Development	5
	OR	

PSY	305	–	Introductory Educational Psychology	5
Social Foundations				
SOC	343	–	School and Society	5
			OR	
PHI	326	–	Philosophies of Education	5
			OR	
HIS	475	–	Education in History	5
			OR	
EDU	509	–	National Educational Systems: A Comparative Analysis	4

Reading Competencies Requirement: Further, new educational regulation in Florida, effective September 1, 1974, requires that all persons applying for teacher certification show evidence of having been prepared on specific skills for teaching Reading. All programs in the School of Education are designed to meet this requirement.

Professional Education Core: All teacher education students, no matter their area of specialization, enroll in three common courses during the Junior year. This common "core" consists of the following:

	CREDITS
EDU 305 – Schooling in America	5
EDU 311 – General Teaching Lab I: Technical Skills	5
EDU 312 – General Teaching Lab II: Human Relation Skills	5

Subsequent Special Teaching Laboratories and Courses build on these core courses to extend and refine understandings and skills. All programs include one full quarter of student teaching.

All undergraduate programs require course work in the College of Arts and Sciences, or one of the other Schools. These courses provide necessary subject matter preparation to go along with professional preparation.

Students graduate with a Bachelor of Science degree, and are qualified for a Rank III graduate teacher certificate in their field of specialization.

Professional education courses offered as a part of undergraduate teacher certification programs are normally open only to students who have been admitted to a teacher preparation program. Other students may be admitted by permission of the course instructor only.

GENERAL PROGRAM DESIGN – Graduate

Graduate courses offered by the School of Education are also designed to be performance-or-competency-based, and to allow for student self-pacing. Graduate programs are typically designed to require some course work in Education, some in the College of Arts and Sciences or one of the other Schools, and electives in any academic unit.

The specifics of any master's degree program are developed between the student and his adviser to reflect individual student interests within the context of professional certification requirements. A typical program will include courses, seminars, and appropriate field experiences.

The typical graduate student will complete 45 quarter hours at Florida International University to earn a Master of Science in Education degree. The

programs in Counselor Education and School Psychology require 90 quarter hours. As a general rule, students may transfer 10 quarter hours taken at another accredited college or university toward a 45-quarter hour master's degree and 15 toward a 90-quarter-hour program at Florida International University. Also, 15 quarter hours of work taken as a Special Student at Florida International may be applied to a master's program if applicable to the student's major.

DIVISION OF GENERAL PROFESSIONAL EDUCATION AND EDUCATIONAL ADMINISTRATION

Undergraduate Program: This Division does not offer an undergraduate major. It is responsible for the fifteen quarter hours of "core" courses (EDU 305, EDU 311, and EDU 312), which are required of all undergraduate teacher education students.

Graduate Programs: This Division offers graduate programs in Administration and Supervision (Elementary, Secondary, and General). Typical programs of study in these areas are shown below. Applicants to a Master's degree program in School Administration or Supervision must meet the Board of Regents criteria for admission to graduate study, must possess a Florida Rank III graduate certificate or equivalent, and must have completed at least one year of successful teaching as a full-time teacher in an elementary or secondary school. (Service as an aide or substitute does not meet the experience requirement).

In addition to the core courses and graduate programs in Administration and Supervision the Division offers a number of advanced general courses which are used in various master's degree programs of the School of Education. Among these offerings are courses in Instructional Technology, Instructional Media, Analysis of Teaching, Educational Research, and Comparative and International Education.

MASTER OF SCIENCE IN EDUCATION ADMINISTRATION: ELEMENTARY OR SECONDARY

Core Requirements			CREDITS
EDA	605	The Organization and Operation of Public School Systems	4
EDA	608	Supervision in Education	4
EDA	609	Curriculum Development	4
EDU	507	Analysis and Application of Educational Research	4
Other Courses			
EDA	606	The Administration of an Elementary School OR	
EDA	607	The Administration of a Secondary School	4
EDA	616	Staff Development Programs in Urban School Systems	4

EDA	617	Emerging Designs for School Organization and Staff Utilization	4
EDA	695	Supervised Field Experience	3-5
EEL	605	Curriculum Design for Childhood Education	
		OR	
EDS	625	Secondary School Curriculum	4
Electives – from Education, School of Business & Organizational Sciences, or College of Arts and Sciences			8-10
			45

MASTER OF SCIENCE IN EDUCATION
SUPERVISION: ELEMENTARY OR SECONDARY

Core Requirements			CREDITS
EDA	605	The Organization and Operation of Public School Systems	4
EDA	608	Supervision in Education	4
EDA	609	Curriculum Development	4
EDU	507	Analysis and Application of Educational Research	4
Other Courses			
EDA	615	Curriculum Evaluation and Improvement in Urban School Systems	4
EDA	616	Staff Development Programs in Urban School Systems	4
EDA	617	Emerging Designs for School Organization and Staff Utilization	4
EDA	695	Supervised Field Experience	3-5
EEL	605	Curriculum Design for Childhood Education	
		OR	
EDS	625	Secondary School Curriculum	4
Electives – from Education, School of Business and Organizational Sciences, or College of Arts and Sciences			8-10
			45

GENERAL PROFESSIONAL EDUCATION

EDU 305 – SCHOOLING IN AMERICA (5) **(F,W,S,SS)**

Systematic analysis of the contemporary enterprise of schooling and development of demonstrated understanding of the nature of educational systems and the impact of political, legal, fiscal, and cultural issues upon these systems.

EDU 311 – GENERAL TEACHING LABORATORY I – BASIC TEACHING SKILLS (5) **(F,W,S,SS)**

Practice in generic teaching skills, techniques and strategies basic to

all age levels and subject matter areas. Lecture, seminar and laboratory.

EDU 312 – GENERAL TEACHING LABORATORY II – HUMAN RELATIONS SKILLS (5) **(F,W,S,SS)**
Development of human relations skills to facilitate interaction and prepare student to deal with individuals and groups in a multi-ethnic urban classroom.

EDU 505 – INSTRUCTIONAL TECHNOLOGY: SYSTEMS APPROACH (4) **(F)**
Development of instructional competencies with an emphasis on the use of a systems approach in the design, implementation and evaluation of programs.

EDU 506 – ANALYSIS OF TEACHING (4) **(W)**
Examination of the research on instruction in the various teaching fields and the development of skills in systems of observation and analysis of teacher behavior.

EDU 507 – ANALYSIS AND APPLICATION OF EDUCATIONAL RESEARCH (4) **(F,W,S,SS)**
Competencies required for the design, implementation, and evaluation of educational research, including problem formulation and analysis, sample selection, instrument selection, formulation of research design and procedure, and data analysis.

EDU 508 – FIELD STUDY ABROAD (5-10) **(By Arrangement)**
Development of international and cross-cultural understandings of educational philosophies and systems through planned travel and study abroad.

EDU 509 – NATIONAL EDUCATIONAL SYSTEMS: A COMPARATIVE ANALYSIS (4) **(F)**
Examination of educational structures and guiding educational objectives in a limited number of both developed and developing countries. Analysis of the responses of national educational systems to common educational issues.

EDU 510 – SUPERVISING FIELD EXPERIENCES IN TEACHER EDUCATION (4) **(By Arrangement)**
Development of skills in supervising field experiences in teacher education. Prerequisites: Possession of the Rank III graduate certificate and teaching experience.

EDU 514 – LATIN AMERICAN EDUCATION: AN HISTORICAL AND CONTEMPORARY OVERVIEW (4) **(W)**
Historical development of Latin American education and analysis of the principal forces shaping this development. Colonial values and norms, post-revolutionary challenges to the educational status quo,

and contemporary currents in Latin American education will be examined.

EDU 515 – EDUCATIONAL SYSTEMS IN LATIN AMERICA (4) (S)
Examination of educational structures of related countries of Latin America today. Analysis of guiding educational objectives and the responses of national educational systems to key issues, including educational planning and manpower development, universal primary and secondary education, and student rights and university reform.

EDU 516 – INSTRUCTIONAL MEDIA (4) (W)
Development of competencies required for effective selection and utilization of instructional media. Consideration of criteria for sources, selection, evaluation and methods of implementing media. Laboratory experiences will emphasize basic production methods.

EDU 517 – MEASUREMENT AND EVALUATION IN EDUCATION (4) (F)
Competencies required for the design, construction, and evaluation of measuring instruments, including assessment of validity and reliability, formulation of objectives, test construction, item analysis, analysis and interpretation of test scores, analysis of standardized instruments, and grading and reporting.

EDU 518 – AFFECTIVE LEARNING IN THE CLASSROOM (4) (W)
A behavioral approach to affective teaching techniques, including theoretical background, behavioral definitions, writing affective objectives, and evaluation of affective learning in the classroom. The course includes observation and simulation of a variety of affective teaching techniques and programs. A field experience will include observation and/or supervised participation in a school setting.

EDU 595 – INDIVIDUAL STUDY (1-5) (F,W,S,SS)
The student plans and carries out an independent study project under direction. Prerequisite: Consent of chairman of the division. May not be used to substitute for regular course offerings.

EDU 605 – RESEARCH METHODS IN EDUCATION: EXPERIMENTAL DESIGN AND ANALYSIS (5) (W)
Competencies required for the design and analysis of complex educational problems, including formulation of pre-experimental, true experimental, quasi-experimental, and factorial designs, and related analyses. Prerequisite: EDU 507.

EDU 606 – APPLICATION OF LEARNING THEORY TO INSTRUCTION (4) (W)
Competencies required for analysis of learning theories of selected theorists (i.e., Ausubel, Bruner, Gagné, Skinner), and application of these theories to components of an instructional system (i.e., objectives, entry behavior and individual differences, structure and sequence, motivation, events of instruction, and assessment of outcomes).

EDUCATIONAL ADMINISTRATION AND SUPERVISION

EDA 605 – THE ORGANIZATION AND OPERATION OF PUBLIC SCHOOL SYSTEMS (4) (F,SS)
Examines the public school system as a complex formal organization with particular attention to identifying the dynamics of community-school interactions, goal clarification and program evaluation, procurement and allocation of resources, general administrative provisions, and the legal context within which the school system operates.

EDA 606 – THE ADMINISTRATION OF AN ELEMENTARY SCHOOL (4) (S)
Development of competencies required to assume the role of principal of an elementary school, with particular attention to the urban setting. Prerequisite: EDA 605.

EDA 607 – THE ADMINISTRATION OF A SECONDARY SCHOOL (4) (S)
Development of competencies required to assume the role of principal of a secondary school, with particular attention to the urban setting. Prerequisite: EDA 605.

EDA 608 – SUPERVISION IN EDUCATION (4) (W)
Examines supervision as a process and the supervisory role in an educational setting, with particular attention to the development of supervision skills necessary to facilitate both individual and group change.

EDA 609 – CURRICULUM DEVELOPMENT (4) (W)
Development of basic technical constructs of curriculum (scope, sequence, balance, etc.). Planning of reality-based educational programs at all levels of schooling.

EDA 615 – CURRICULUM EVALUATION AND IMPROVEMENT IN URBAN SCHOOL SYSTEMS (4) (S)
Development of skills in curriculum evaluation and strategies for improvement of on-going curriculum. Prerequisite: EDA 609.

EDA 616 – STAFF DEVELOPMENT PROGRAMS IN URBAN SCHOOL SYSTEMS (4) (F)
Identification and analysis of various staff training strategies and techniques used in an educational setting with an emphasis on defining staff problems and the processes by which such problems are solved.

EDA 617 – EMERGING DESIGNS FOR SCHOOL ORGANIZATION AND STAFF UTILIZATION (4) (W)
Critical analysis of alternatives to traditional school organization and staffing and examination of possible future alternatives in public education.

EDA 695 – SUPERVISED FIELD EXPERIENCE (3-5) **(F,W,S)**
Development of supervisory skills by undertaking an arranged field-based assignment. Prerequisites: EDA 605, EDA 606 or EDA 607, and EDA 608, for students in the Master's Program in Educational Administration or Supervision.

EDA 696 – SEMINAR IN SCHOOL ADMINISTRATION/ SUPERVISION (3) **(SS)**
In-depth study of selected issues and developments in school administration and supervision, including an examination of related research.

EDA 697 – WORKSHOP IN SCHOOL ADMINISTRATION/ SUPERVISION (3-5) **(By Arrangement)**
Offers an opportunity for experienced school administrators and supervisors to participate in a problem-oriented workshop.

EDA 698 – INDIVIDUAL STUDY IN SCHOOL ADMINISTRATION/ SUPERVISION (1-5) **(F,W,S,SS)**
For advanced students wishing to undertake an individual project in administration or supervision. May not be used to substitute for regular course offerings. Prerequisite: consent of chairman of the division.

DIVISION OF CURRICULUM AND INSTRUCTION

The Division of Curriculum and Instruction offers programs at both the Bachelors and the Masters degree levels. The Bachelor of Science degree is awarded at the completion of an undergraduate program and the Master of Science is awarded to students completing a graduate program. Programs offered by the Division satisfy teacher certification standards for the State of Florida.

UNDERGRADUATE PROGRAM

Students enrolled in the Division of Curriculum and Instruction may pursue the following programs:

I. Childhood (Elementary) Education – Kindergarten through Grade 6
Early Childhood Education

II. Childhood Education and Secondary Education
  A. Art Education – Grades K-12
  B. Music Education – Grades K-12

III. Secondary Education – Grades 7-12
  A. Drama Education
  B. English Education
  C. History Education
  D. Mathematics Education
  E. Modern Language Education
  F. Science Education
  G. Social Studies Education

Students majoring in the Division of Curriculum and Instruction are assigned to an adviser in their teaching field. After being admitted to the University and with the assistance of an adviser, the student will construct a program of study for the duration of his stay at Florida International University. The program of study must comply with the University's degree requirements and will reflect the career goals of the student. A typical undergraduate program for an entering Junior student requires ninety (90) quarter hours which may be completed by a full-time student in a minimum of six quarters. Upon completion of the program of study, the student is awarded a Bachelor of Science Degree, and qualifies for Rank III Certification in the State of Florida.

Students desiring certification in a secondary school teaching field have the option of registering in either the School of Education and working for a B.S. in Education degree or in the College of Arts and Sciences and working for an Arts and Science degree. Students should consult advisers in the unit in which they wish to earn their degree.

STUDENT TEACHING AND LABORATORY EXPERIENCES

Most courses offered by the Division of Curriculum and Instruction require observation and participation in selected schools. These experiences are a required segment of certain courses and are identified in each course description.

The student teaching assignment is fulfilled in selected schools under the direction of classroom teachers and University faculty.

The student teaching experience is on a full-time basis for a complete quarter. Permission will be contingent upon completion of all specified requirements in the program being pursued. In general, the student is expected to enroll for the student teaching assignment in the senior year.

Applications for student teaching may be obtained from the Office of Student Information and Academic Advising in the School of Education, and should be returned to that office early in the quarter following completion of 135 quarter hours of credit and no later than two quarters prior to the time of registration for student teaching.

MUSIC EDUCATION

LOWER DIVISION PREPARATION:

Required Courses: Students will be admitted to the program who have an adequate preparation in music.

1. an AA degree in Music or provided evidence of competency through departmental exams in the areas of theory, performance in a major instrument, sight singing, and proficiency at the keyboard.
2. Foundations in Education, (See page 246) 10 credits.

UPPER DIVISION PROGRAM:

1. **Subject Matter Specialization**	CREDITS
45 quarter hours in the upper division including:	
Applied Music (Lessons and Organizations)	21
Recital and Research	2

Music Theory			15
Conducting			2
Music History			5

2. Professional Education

EDU	305	— Schooling in America K-14	5
EDU	311	— General Teaching Laboratory I	5
EDU	312	— General Teaching Laboratory II	5
MUE	316	— Special Teaching Laboratory I	5
MUE	416	— Special Teaching Laboratory II	5
MUE	425	— Student Teaching (Elementary and Secondary)	15

* Consult your advisor for requirements in reading.

3. Electives

Sufficient number of hours to make a total of 90 quarter hours at Florida International University.

CHILDHOOD EDUCATION

KINDERGARTEN – GRADE 6

LOWER DIVISION PREPARATION:

Required Courses: An Associate of Arts Degree or adequate preparation in basic general education. Students will be admitted to the program who have the equivalent of:

(a) MAS 401 and MAS 402
(b) FIA 375
(c) MUE 306 or MUE 375
(d) Two science courses selected from Biological and/or Physical Sciences.
(e) Foundations of Education, (see page 246) 10 credits

UPPER DIVISION PROGRAM:

1. Professional Education

EDU	305	— Schooling in America	5
EDU	311	— General Teaching Laboratory I	5
EDU	312	— General Teaching Laboratory II	5
EEL	307	— Health and Physical Education for Children	5
EEL	318	— Experiencing Art in the Elementary School	5
EEL	319	— Experiencing Music in the Elementary School	5
EEL	401	— Communication Skills I	5
EEL	402	— Communication Skills II	5
EEL	403	— Communication Skills III	5
EEL	411	— Development of Attitudes and Skills for Inquiry II	5
EEL	413	— Inquiry in Mathematics in the Elementary School	5

EEL	414	– Inquiry in Science in the Elementary School	5
EEL	425	– Student Teaching	15

Students enrolled in the program of Childhood Education are required to complete the sequence listed above. All courses consist of experiences which provide the prospective teacher with those skills necessary for effective teaching.

2. **Area of Concentration:** All Childhood Education majors must complete a program in an area of concentration consisting of at least 15 hours to extend the student's background of information and understanding in an area of his choice. A wide variety of choices exists. Consult your adviser for this information.

CHILDHOOD AND SECONDARY EDUCATION
ART EDUCATION

LOWER DIVISION PREPARATION:

Required Courses: Adequate preparation in art; students will be admitted to the program who have:

1. an AA degree in Art or
   (a) two semesters: art survey
   (b) two dimensional and three dimensional design and basic and figure drawing through a junior college for coursework in art history survey, design and/or drawing.
2. Foundations of Education, (See page 246) 10 credits

UPPER DIVISION PROGRAM:

1. **Subject Matter Specialization (45 quarter hours)**			CREDITS
ARH	585	– Contemporary Art	5
ARH	5	– Art History Elective	5
FIA	316	– Figure Drawing	5
FIA	325	– Painting	5
FIA	335	– Sculpture	5
*FIA	345	– Printmaking	5
*FIA	355	– Photography	5
FIA	361		
or	362	– Ceramics	5
FIA		– Studio Art Elective	5

*If a comparable course has been taken in the lower division, the student has option of Studio Art Elective.

2. **Professional Education, including Art Education**			
EDU	305	– Schooling in America K-14	5
EDU	311	– General Teaching Laboratory I	5
EDU	312	– General Teaching Laboratory II	5

EAR	405	— Special Teaching Laboratory: Art in Grades K-6	5
EAR	416	— Special Teaching Laboratory: Art in Grades 7-12	5
EAR	425	— Student Teaching in Art	15

*Consult your adviser for requirements in reading.

SECONDARY EDUCATION (7-12)

DRAMA EDUCATION

LOWER DIVISION PREPARATION:

Required Courses: Foundations of Education, (See page 246) 10 credits

UPPER DIVISION PROGRAM:

1. Subject Matter Specialization CREDITS

45 quarter hours in the upper division as follows:

History of Theatre	5
Remaining 40 quarter hours to be distributed between PRODUCTION AND PERFORMANCE courses	40

2. Professional Education

EDU	305	— Schooling in America K-14	5
EDU	311	— General Teaching Laboratory I	5
EDU	312	— General Teaching Laboratory II	5
EDS	415	— Special Teaching Laboratory: Speech/Drama	5
EDS	425	— Student Teaching	15

*Consult your adviser for requirements in reading.

3. Electives

Sufficient number of hours to make a total of 90 quarter hours at Florida International University.

ENGLISH EDUCATION

LOWER DIVISION PREPARATION:

Required Courses: Foundations of Education, (See page 246) 10 credits

UPPER DIVISION PROGRAM:

1. Subject Matter Specialization CREDITS

40 quarter hours beyond freshman ENGLISH 40

Included in the 40 quarter hours must be 10 to 15 quarter hours in each of the following areas:

A. Communications
B. Literature
C. Language

2. Professional Education

EDU	305	— Schooling in America K-14	5
EDU	311	— General Teaching Laboratory I	5
EDU	312	— General Teaching Laboratory II	5
EDS	405	— Special Teaching Laboratory: English	5
EDS	425	— Student Teaching	15

*Consult your adviser for requirements in reading.

HISTORY EDUCATION

LOWER DIVISION PREPARATION:

Required Courses: Foundations of Education, (See page 246) 10 credits

Remarks: 9 quarter hours (6 semester hours) beyond the Social Science requirement in General Education may be transferred from the lower division toward satisfying requirements of sections 1 C and/or D below.

UPPER DIVISION PROGRAM:

1. Subject Matter Specialization	CREDITS
A. History 301 — Introduction to History	5
B. U.S. History at 300, 400, or 500 level	10
C. History other than U.S.	20
D. U.S. Government	5

2. Professional Education

EDU	305	— Schooling in America K-14	5
EDU	311	— General Teaching Laboratory I	5
EDU	312	— General Teaching Laboratory II	5
EDS	409	— Special Teaching Laboratory: Social Studies	5
EDS	425	— Student Teaching	15

*Consult your adviser for requirements in reading.

3. Electives

Sufficient number of hours to make a total of 90 quarter hours at Florida International University.

MATHEMATICS EDUCATION

LOWER DIVISION PREPARATION:

Required Courses: Foundations of Education, (See page 246) 10 credits

UPPER DIVISION PROGRAM:

1. Subject Matter Specialization CREDITS

35 quarter hours beyond CALCULUS, including at least: 10

quarter hours in Probability and Statistics and 5 quarter hours in a computer related course. 35

2. **Professional Education**

EDU	305	— Schooling in America K-14	5
EDU	311	— General Teaching Laboratory I	5
EDU	312	— General Teaching Laboratory II	5
EDS	406	— Special Teaching Laboratory: Mathematics	5
EDS	425	— Student Teaching	15

*Consult your adviser for requirements in reading.

3. **Electives**
Sufficient number of hours to make a total of 90 quarter hours at Florida International University.

MODERN LANGUAGE EDUCATION

LOWER DIVISION PREPARATION:

Required Courses: Four semesters of elementary and intermediate modern language and Foundations of Education, (See page 246) 10 credits.

UPPER DIVISION PROGRAM:

1. **Subject Matter Specialization** CREDITS
30 quarter hours beyond second year college language in LANGUAGE AND LITERATURE 30

2. **Professional Education**

EDU	305	— Schooling in America K-14	5
EDU	311	— General Teaching Laboratory I	5
EDU	312	— General Teaching Laboratory II	5
EDS	407	— Special Teaching Laboratory: Modern Languages	5
EDS	425	— Student Teaching	15

*Consult your adviser for requirements in reading.

3. **Electives**
Sufficient number of hours to make a total of 90 quarter hours at Florida International University.

BIOLOGY EDUCATION

LOWER DIVISION PREPARATION:

Required Courses: 12 quarter hours (8 semester hours) of Biology; 12 quarter hours (8 semester hours) of General Chemistry; Mathematics through Analytical Geometry; and, Foundations of Education, (See page 246) 10 credits.

Recommended Courses: Organic Chemistry.

UPPER DIVISION PROGRAM:

1. Subject Matter Specialization			CREDITS
A.	30 quarter hours of BIOLOGY		30
B.	15 quarter hours including ORGANIC CHEMISTRY, PHYSICAL CHEMISTRY, and CALCULUS		15
2. Professional Education			
EDU	305	— Schooling in America K-14	5
EDU	311	— General Teaching Laboratory I	5
EDU	312	— General Teaching Laboratory II	5
EDS	408	— Special Teaching Laboratory: Science	5
EDS	425	— Student Teaching	15

*Consult your adviser for requirements in reading.

3. Electives
Sufficient number of hours to make a total of 90 quarter hours at Florida International University.

CHEMISTRY EDUCATION

LOWER DIVISION PREPARATION:

Required Courses: 12 quarter hours (8 semester hours) of General Chemistry, Mathematics through Calculus II and Foundations of Education, (See page 246) 10 credits.

Recommended Courses: Organic Chemistry, General Physics with Calculus.

Remarks: Linear Algebra, a pre-requisite for Multi-variable Calculus (section 1, below), may be taken either in the lower division or at Florida International University.

UPPER DIVISION PROGRAM:

1. Subject Matter Specialization			CREDITS
21-25 quarter hours including the following:			
A.	Physical Chemistry		15
B.	Physical Chemistry Lab		1-5
C.	Multi-Variable Calculus		5
2. Professional Education			
EDU	305	— Schooling in America K-14	5
EDU	311	— General Teaching Laboratory I	5
EDU	312	— General Teaching Laboratory II	5
EDS	408	— Special Teaching Laboratory: Science	5
EDS	425	— Student Teaching	15

*Consult your adviser for requirements in reading.

3. Electives
Recommended electives in Environmental Studies. Sufficient number of hours to make a total of 90 quarter hours at Florida International University.

PHYSICS EDUCATION

LOWER DIVISION PREPARATION:

Required Courses: 12 quarter hours (8 semester hours) of General Physics with Calculus; Mathematics through Calculus II, and Foundations of Education, (See page 246) 10 credits.

Recommended Courses: 12 quarter hours (8 semester hours) of General Chemistry. General Physics with Calculus and Mathematics through Calculus II.

Remarks: Linear Algebra, a prerequisite for Multi-variable Calculus (section 1, below) may be taken either in the lower division or at Florida International University.

UPPER DIVISION PROGRAM:

1. **Subject Matter Specialization**			CREDITS
25 quarter hours in PHYSICS, including work in the following:			
ELECTRICITY AND MAGNETISM, OPTICS, and ELECTRONICS, plus Multi-variable CALCULUS			25
2. Professional Education			
EDU	305	— Schooling in America K-14	5
EDU	311	— General Teaching Laboratory I	5
EDU	312	— General Teaching Laboratory II	5
EDS	408	— Special Teaching Laboratory: Science	5
EDS	425	— Student Teaching	15

*Consult your adviser for requirements in reading.

3. Electives

Recommended electives in Instrumentation, Environmental Studies, and Dynamics. Sufficient number of hours to make a total of 90 quarter hours at Florida International University.

SOCIAL STUDIES EDUCATION

LOWER DIVISION PREPARATION:

Required Courses: Foundations of Education, (See page 246) 10 credits

Recommended Courses: With reference to section 1 below, students are encouraged to take as much coursework at the lower division as possible except that two courses in History, one course in Political Science, and one course in Geography must be taken at the upper division level.

UPPER DIVISION PROGRAM:

1. Subject Matter Specialization	CREDITS
A. U.S. HISTORY	9-10
B. EUROPEAN HISTORY (RUSSIAN HISTORY would count in this category)	9-10
C. HISTORY other than U.S. or EUROPEAN, including credit in both LATIN AMERICAN HISTORY and ASIAN HISTORY	9-10
D. POLITICAL SCIENCE, including a course in U.S. GOVERNMENT	10
E. FOUNDATIONS OF ECONOMICS	5
F. GEOGRAPHY, including a course in NATURAL RESOURCES	10
G. SOCIOLOGY	5

2. Professional Education

EDU	305	— Schooling in America K-14	5
EDU	311	— General Teaching Laboratory I	5
EDU	312	— General Teaching Laboratory II	5
EDS	409	— Special Teaching Laboratory: Social Studies	5
EDS	425	— Student Teaching	15

*Consult your adviser for requirements in reading.

3. Electives

Recommended electives: Anthropology and Psychology. Sufficient number of hours to make a total of 90 quarter hours at Florida International University.

GRADUATE PROGRAM

Graduate work in the Division of Curriculum and Instruction is designed to prepare professional educators for the role of master teacher, and for leadership roles in Curriculum and Instruction.

Graduate programs are offered in the following specialized areas:

Art Education	Modern Language Education
Childhood Education	Music Education
Early Childhood Education	Reading Education
English Education	Science Education
Mathematics Education	Social Studies Education

Students must file a program of study with their adviser. The program of study must comply with the general Masters Degree requirements and reflect the career goals of the student.

Upon completion of his program, the student is awarded the Master of Science degree and qualifies for Rank II Certification in the State of Florida.

Requirements for admission to programs in Curriculum and Instruction are (1) Completion of an appropriate undergraduate teacher education program, (2)

Satisfactory scholastic aptitude as determined by the Graduate Admission standards, and (3) A satisfactory record in the teaching field.

A typical program of study consists of 45 quarter hours of course work. Generally, ten quarter hours of graduate study from another accredited college or university may be transferred if applicable to the student's program.

MASTER OF SCIENCE IN EDUCATION
SPECIALTY: Art Education

A. EDUCATION, including ART EDUCATION (24 quarter hours)

These courses to be taken in the following sequence:

1) EDU 505 Instructional Technology (4)
2) EAR 605 Curriculum and Instruction in Art (4)
3) Select one of following, depending on individual professional orientation: (4 hours)
   - EDU 506 Analysis of Teaching
   - EDA 605 The Organization and Operation of Public School Systems
   - EDA 608 Supervision in Education
   - EEL 605 Curriculum Design for Childhood Education
   - EDS 625 Secondary School Curriculum
   - EEC 608 Exceptional Children and Youth
4) EAR 607 Organization and Coordination of School and Community Art Programs (4)
5) EDU 507 Analysis and Application of Educational Research (4)
6) EAR 609 Seminar in Art Education: Contemporary Issues and Research (4)

B. SUBJECT MATTER SPECIALIZATION (21 quarter hours)

Five graduate art courses, including one art history:

Art History (5 hours)
Studio Art (16 hours)
(4 quarter hours credit for each studio course)

C. ELECTIVE (4 quarter hours)

MINIMUM OF 49 QUARTER HOURS

SPECIALTY: Childhood Education

A. GENERAL PROFESSIONAL EDUCATION 12 quarter hours

1. EDU	605	Curriculum Design for Childhood Education	4 hrs.
2. EDU	507	Analysis and Application of Educational Research	4 hrs.
3. SOC	582	Sociology of Education	4 hrs.
		or	
4. PSY	505	Advanced Educational Psychology	4 hrs.

B. AREA OF SPECIALIZATION 24 quarter hours

1. EEL 606 Educational Programs for Older Children 4 hrs.
2. (Other courses to be selected from among EEL course listings) 20 hrs.

C. ELECTIVES 9 quarter hours

SPECIALTY: Early Childhood Education

A. GENERAL PROFESSIONAL EDUCATION 12 quarter hours

1. EDU 605 Curriculum Design for Childhood Education 4 hrs.
2. EDU 507 Analysis & Application of Educational Research 4 hrs.
3. SOC 582 Sociology of Education 4 hrs.
   or
4. PSY 505 Advanced Educational Psychology 4 hrs.

B. AREA OF SPECIALIZATION 24 quarter hours

1. ECE 606 Education Programs for Younger Children 4 hrs.
2. (Other Courses to be selected from ECE course listings) 20 hrs.

C. ELECTIVES 9 quarter hours

SPECIALTY: English Education

A. EDUCATION 16 quarter hours

*1. EDU 507 Analysis and Application of Educational Research 4 hrs.
*2. EDS 614 Teaching English in the Secondary School 4 hrs.
3. EDS 625 Secondary School Curriculum 4 hrs.
*4. EDS 639 Seminar in English Education 4 hrs.

B. TEACHING FIELD: ENGLISH 20 quarter hours

C. ELECTIVES 9 quarter hours

*These courses to be taken in sequence.

SPECIALTY: History Education

A. EDUCATION 16 quarter hours

1. EDS 619 Teaching Social Studies in the Secondary School 4 hrs.
2. EDS 625 Secondary School Curriculum 4 hrs.
3. EDU 507 Analysis and Application of Educational Research 4 hrs.
4. EDS 629 Seminar in Social Studies Education 4 hrs.

B. TEACHING FIELD HISTORY 20 quarter hours

C. ELECTIVES
(In Education and/or Teaching Field) 9 quarter hours

SPECIALTY: Mathematics Education

A. EDUCATION — 16 quarter hours

1.	EDU	507	Analysis and Application of Educational Research	4 hrs.
2.	EDS	609	Teaching Mathematics in the Secondary School	4 hrs.
3.	EDS	616	Seminar in Mathematics Education	4 hrs.
4.	EDS	625	Secondary School Curriculum	4 hrs.

B. TEACHING FIELD: MATHEMATICS — 20 quarter hours

C. ELECTIVES
(In Education and/or Mathematics) — 9 quarter hours

SPECIALTY: Modern Language Education

A. EDUCATION — 20 quarter hours

*1.	EDU	505	Instructional Technology	4 hrs.
*2.	EDU	506	Analysis of Teaching	4 hrs.
3.	EDS	615	Teaching Modern Languages in Secondary School	4 hrs.
4.	EDS	625	Secondary School Curriculum	4 hrs.
5.	EDU	507	Analysis and Application of Educational Research	4 hrs.

B. TEACHING FIELD: MODERN LANGUAGES — 20 quarter hours

C. ELECTIVES — 5 quarter hours

*These Education courses to be taken before other Education courses in the following sequence: EDU 505, EDU 506.

SPECIALTY: Music Education

A. EDUCATION — 20 quarter hours

*1.	EDU	505	Instructional Technology	4 hrs.
			or	
*2.	EDU	506	Analysis of Teaching	4 hrs.
	Select one of the above.			
3.	EDS	625	Secondary School Curriculum	4 hrs.
			or	
4.	EEL	605	Curriculum Design for Childhood Education	4 hrs.
	Select one of the above.			
5.	EDU	507	Analysis and Application of Educational Research	4 hrs.
6.	MUE	616	Methodology of Music Teaching	4 hrs.
7.	MUE	617	Seminar in Music Education	4 hrs.

*EDU 505 and EDU 506 should be taken before other Education courses.

B. TEACHING FIELD
MUSIC 20 quarter hours

C. ELECTIVES 5 quarter hours

SPECIALTY: Reading

A. GENERAL PROFESSIONAL EDUCATION 12 quarter hours

1. EDU 507 Analysis and Application of Educational Research 5 hrs.
2. EEL 605 Curriculum Design for Childhood Education 3 hrs.
3. EDU 517 Measurement and Evaluation in Education 4 hrs.

B. AREA OF SPECIALIZATION 29 quarter hours

1.(Courses to be selected in consultation with your adviser).

C. ELECTIVES 4 quarter hours

SPECIALTY: Science Education

A. EDUCATION 16 quarter hours

1. EDS 617 Teaching Biological Science in the Secondary School 4 hrs.
   or
   EDS 618 Teaching Physical Sciences in the Secondary School 4 hrs.
2. EDS 625 Secondary School Curriculum 4 hrs.
3. EDU 507 Analysis and Application of Educational Research 4 hrs.
4. EDS 649 Seminar in Science Education 4 hrs.

B. TEACHING FIELD 20 quarter hours

BIOLOGY OR CHEMISTRY OR PHYSICS
or
ONE COURSE IN EACH OF THE FOLLOWING AREAS

BIOLOGY, CHEMISTRY, PHYSICS
(For Junior High Science Teachers)

C. ELECTIVES 9 quarter hours

SPECIALTY: Social Studies Education

A. EDUCATION 16 quarter hours

1. EDS 619 Teaching Social Studies in the Secondary School 4 hrs.

2.	EDS	625	Secondary School Curriculum	4 hrs.
3.	EDU	507	Analysis and Application of Educational Research	4 hrs.
4.	EDS	629	Seminar in Social Studies Education	4 hrs.

B. TEACHING FIELD
SOCIAL STUDIES 20 quarter hours

C. ELECTIVES
(In Education and/or Teaching Field) 9 quarter hours

ART EDUCATION

EAR 405 – SPECIAL TEACHING LABORATORY: ART IN GRADES K-6 (5) **(F,S)**
Development of instructional skills, techniques, and strategies for teaching art in the elementary school. Laboratory and field participation required. Prerequisites: EDU 305, EDU 311, EDU 312.

EAR 416 – SPECIAL TEACHING LABORATORY: ART IN GRADES 7-12 (5) **(F,W)**
Development of instructional skills, techniques and strategies for teaching art in the junior and senior high school. Laboratory and field participation required. Prerequisites: EDU 305, EDU 311, EDU 312.

EAR 425 – STUDENT TEACHING IN ART (15) **(F,W,S)**
Supervised teaching in an elementary and secondary school. Prerequisites: EDU 305, EDU 311, EDU 312, EAR 405, EAR 416, and two-thirds of the course work required in Art.

EAR 505 – ART FOR THE EXCEPTIONAL CHILD (5) **(W,SS)**
Development of appropriate instructional art skills, techniques, and strategies as related to the exceptional child. Observation and field participation required.

EAR 605 – CURRICULUM AND INSTRUCTION IN ART (4) **(W)**
Examination of theoretical bases of curriculum development in art education. Analysis of objectives, content, methods and materials for art instruction in the elementary, junior and senior high school. Prerequisite: EDU 505.

EAR 607 – ORGANIZATION AND COORDINATION OF SCHOOL AND COMMUNITY ART PROGRAMS (4) **(F,SS)**
Procedures for the organization, coordination and evaluation of school, community, and in-service art programs, with particular attention to the urban multi-cultural setting.

EAR 609 – SEMINAR IN ART EDUCATION: CONTEMPORARY ISSUES AND RESEARCH (4) (S)

Examination of current issues and review of research in art education literature. Delineation and application of individual research problem. Prerequisite: EDU 507.

CHILDHOOD EDUCATION

EEL 307 – HEALTH AND PHYSICAL EDUCATION FOR CHILDREN (5) (F,W,S,SS)

This experience is designed to provide each student those teaching skills necessary for the development and implementation of programs concerning use of leisure time and maintenance of personal health and family life. Three hours per week of laboratory and field work required. Prerequisite: Open to students who have taken, or are currently enrolled in EDU 311.

EEL 318 – EXPERIENCING ART IN THE ELEMENTARY SCHOOL (5) (F,W,S,SS)

Designed to provide the student with skills, techniques, and strategies necessary for the development and implementation of art experiences in the elementary curriculum. Three (3) hours of laboratory and field work required. Prerequisites: EDU 311, ART Skills course, or equivalent course at the Junior College.

EEL 319 – EXPERIENCING MUSIC IN THE ELEMENTARY SCHOOL (5) (F,W,S,SS)

Designed to provide the student with skills, techniques, and strategies necessary for the development and implementation of music experiences in the elementary curriculum. Three (3) hours of laboratory and field work required. Prerequisites: EDU 311, Music Skills Lower Division or MUE 375.

EEL 401-402 – COMMUNICATION SKILLS I-II (5, (5) (F,W,S,SS)

This two-course instructional skills laboratory is designed to develop and refine those teaching competencies which allow the student to perform effectively as a teacher of reading. Three hours of laboratory and field work required per course. Courses are to be taken sequentially. Prerequisite: EDU 311.

EEL 403 – COMMUNICATION SKILLS III (5) (F,W,S,SS)

This instructional skills laboratory is designed to develop and refine those teaching competencies which allow the student to perform effectively as a teacher of children using language arts activities to enhance communications skills. Three hours of laboratory and field work required. Prerequisite: EDU 311.

EEL 411 – DEVELOPMENT OF ATTITUDES AND SKILL FOR INQUIRY II (5) (F,W,S,SS)
This instructional skills laboratory is designed to develop and refine those teaching competencies which allow the student to perform effectively as a teacher of children using social studies as a mode of inquiry. Three hours of laboratory and field work required. Prerequisite: EDU 311.

EEL 412 – DEVELOPMENT OF ATTITUDES AND SKILLS FOR INQUIRY I (5) (F,W,S,SS)
This instructional skills laboratory is designed to develop and refine those teaching competencies which allow the student to perform effectively as a teacher of children using science/mathematics as a mode of inquiry. Three hours of laboratory and field work required. Prerequisite: EDU 311.

EEL 413 – INQUIRY IN MATHEMATICS IN THE ELEMENTARY SCHOOL (5) (F,W,S,SS)
This instructional skills laboratory is designed to develop and refine those teaching competencies which allow the student to perform effectively as a teacher of children using mathematics as a mode of inquiry. Three hours of laboratory and field work required. Prerequisite: EDU 311.

EEL 414 – INQUIRY IN SCIENCE IN THE ELEMENTARY SCHOOL (5) (F,W,S,SS)
This instructional skills laboratory is designed to develop and refine those teaching competencies which allow the student to perform effectively as a teacher of children using science as a mode of inquiry. Three hours of laboratory and field work required. Prerequisite: EDU 311.

EEL 425 – STUDENT TEACHING (15) (F,W,S)
A field experience in an elementary school where the student serves as a teacher associate, demonstrating competencies acquired throughout the program. Prerequisite: EEL 402, EEL 412.

ECE 501 – EARLY CHILDHOOD EDUCATION PROGRAMS (5) (F,S)
Philosophy and theories of early childhood education; physical, emotional, social and mental development. Observation and participation are required.

ECE 502 – CURRICULUM AND INSTRUCTION IN EARLY CHILDHOOD EDUCATION (5) (W,S)
Practical considerations of basic principles, experiments, research and trends related to early childhood education; materials and techniques of teaching and working with parents. Observation and participation are required.

ECE 595 – INDIVIDUAL STUDY IN EARLY CHILDHOOD EDUCATION (1-5) **(F,W,S,SS)**
Individual investigation in the area of instruction.

ECE 606 – EDUCATION PROGRAMS FOR YOUNGER CHILDREN (4) **(W)**
Programs developed for young children; curriculum trends based on contemporary psychological, educational and sociological research.

Students majoring in Early Childhood Education should register for ECE sections and students majoring in Elementary Education should register for EEL sections.

ECE/EEL 607 – INSTRUCTION IN SOCIAL LEARNING (4) **(S)**
Refinement of skills related to program development, methods of teaching, selection of materials and review of research.

ECE/EEL 608 – INSTRUCTION IN READING (4) **(F,SS)**
Refinement of skills related to program development, methods of teaching, selection of materials and review of research.

ECE/EEL 609 – INSTRUCTION IN LANGUAGE ARTS (4) **(W)**
Refinement of skills related to program development, methods of teaching, selection of materials and review of research.

ECE/EEL 615 – INSTRUCTION IN MATHEMATICS (4) **(W,SS)**
Refinement of skills related to program development, methods of teaching, selection of materials and review of research.

ECE/EEL 616 – INSTRUCTION IN SCIENCE (4) **(F)**
Refinement of skills related to program development, methods of teaching, selection of materials and review of research.

ECE/EEL 617 – INSTRUCTION IN MUSIC (4) **(S)**
Refinement of skills related to program development, methods of teaching, selection of materials and review of research.

ECE/EEL 618 – INSTRUCTION IN ART (4) **(S)**
Refinement of skills related to program development, methods of teaching, selection of materials and review of research.

ECE 695 – SUPERVISED FIELD EXPERIENCE IN EARLY CHILDHOOD EDUCATION **(W,S)**
Field work in educational institutions and organizations.

ECE 696 – SEMINAR IN EARLY CHILDHOOD EDUCATION (3) **(W)**
Advanced study of critical issues and problems in early childhood education.

ECE 697 – WORKSHOP IN EARLY CHILDHOOD EDUCATION (3-5)
An opportunity for teachers to continue to develop competency in a specified area under the guidance of a specialist in selected fields.

EEL 501 – DIAGNOSIS OF READING DIFFICULTY (5) (F,S)
Technique for analyzing and clarifying reading difficulties. Prerequisites: EEL 401 or its equivalent.

EEL 502 – PROGRAMS OF REMEDIATION IN READING (5) (W,SS)
A course demonstrating corrective and remedial procedures; application of specific psychological, pedagogical, and psychotherapeutic techniques. Prerequisites: EEL 401 and EEL 502 or their equivalents.

EEL 503 – ANALYSIS AND PRODUCTION READING MATERIALS (5) (S)
Exploration, creation and evaluation of basic reading materials; commercial and non-commercial. Prerequisites: EEL 401 or equivalent.

EEL 505 – ALTERNATIVE FORMS OF SCHOOLING (5) (S)
Rationale, analysis, and evaluation of school forms designed to exist outside of the formal educational establishment.

EEL 595 – INDIVIDUAL STUDY IN ELEMENTARY EDUCATION (1-5) (F,W,S,SS)
Individual investigation in the area of instruction.

EEL 605 – CURRICULUM DESIGN FOR CHILDHOOD EDUCATION (4) (SS)
A study of curriculum theory, construction and evaluation.

EEL 606 – EDUCATIONAL PROGRAMS FOR OLDER CHILDREN (4) (W)
Programs developed for older children; curriculum trends based on contemporary psychological, educational and sociological research.

EEL 625 – RESEARCH IN READING (3) (F)
A course to study significant research in reading; research methodology; planning and research in reading. Permission from instructor required.

EEL 626 – PRACTICUM IN READING (4) (W)
An analysis of reading difficulties through various teaching techniques and programs.

EEL 628 – ORGANIZATION AND SUPERVISION OF READING PROGRAM (3) (F)
The organization and supervision of reading programs; problems of organization and supervision; continuity of school wide programs; emphasis on leadership responsibilities.

EEL 629 – CLINICAL PROCEDURES IN READING (4) **(W)**
Supervised experience, resulting in diagnosis, prescription and evaluation of particular children in a clinical setting.

EEL 695 – SUPERVISED FIELD EXPERIENCE IN ELEMENTARY EDUCATION (5-15)
Field work in educational institutions and organizations.

EEL 696 – SEMINAR IN ELEMENTARY EDUCATION (3) **(W)**
Advanced study of critical issues and programs in later childhood education.

EEL 697 – WORKSHOP IN ELEMENTARY EDUCATION (3-5)
An opportunity for teachers to continue to develop competency in a specified area under the guidance of a specialist in selected fields.

MUSIC EDUCATION

MUE 316 – SPECIAL TEACHING LABORATORY I (5) **(W,S,SS)**
Development of instructional skills, techniques, and strategies for school music performance organizations through laboratory and field experiences.

MUE 416 – SPECIAL TEACHING LABORATORY II (5) **(F,S)**
Field-based methods, materials and instructional skills course which prepares students for internship in an elementary and secondary school setting. Prerequisites: EDU 311, and MUE 316.

MUE 425 – STUDENT TEACHING (15) **(F,W,S)**
Supervised teaching in an elementary school (5 weeks) and a secondary school (5 weeks). Prerequisites: EDU 305, EDU 311, EDU 312, MUE 316, MUE 406 and two-thirds of the coursework required in music.

MUE 616 – METHODOLOGY OF MUSIC TEACHING (4) **(W,SS)**
Analysis of methods, programs and materials for teaching music in the public schools, and development of music pedagogy skills.

MUE 617 – SEMINAR IN MUSIC EDUCATION (4) **(F,W,S,SS)**
Seminar in music programs in the United States and foreign countries, and current issues and problems facing the music educator.

MUE 595 – DIRECTED STUDY IN MUSIC EDUCATION (1-5) **(F,W,S,SS)**
Individual investigation in one or more areas of music education.

EDS 405 – SPECIAL TEACHING LABORATORY: ENGLISH (5) **(F,W)**
Development of instructional skills, techniques, and strategies for teaching English in the junior and senior high school. Prerequisites: EDS 305, EDU 311, and EDU 312.

EDS 406 – SPECIAL TEACHING LABORATORY: MATHEMATICS (5) **(F,W)**
Development of instructional skills, techniques, and strategies for teaching mathematics in the junior and senior high school. Prerequisites: EDU 305, EDU 311, and EDU 312.

EDS 407 – SPECIAL TEACHING LABORATORY: MODERN LANGUAGES (5) **(F)**
Development of instructional skills, techniques, and stragegies for teaching modern languages in the junior and high school. Prerequisites: EDU 305, EDU 311, and EDU 312.

EDS 408 – SPECIAL TEACHING LABORATORY: SCIENCE (5) **(F)**
Development of instructional skills, techniques, and strategies for teaching biological and physical sciences in the junior and senior high schools. Prerequisites: EDU 305, EDU 311, and EDU 312.

EDS 409 – SPECIAL TEACHING LABORATORY: SOCIAL STUDIES (5) **(F,W)**
Development of instructional skills, techniques, and strategies for teaching history and social science in the junior and senior high school. Prerequisites: EDU 305, EDU 311, and EDU 312. (Field experience required.)

EDS 415 – SPECIAL TEACHING LABORATORY: SPEECH/DRAMA (5) **(F)**
Development of instructional skills, techniques, and strategies for teaching speech and drama, and producing plays in the junior and senior high school. Prerequisites: EDU 305, EDU 311, and EDU 312.

EDS 417 – EXPERIENCING ADOLESCENT LITERATURE IN THE JUNIOR-SENIOR HIGH SCHOOL (4) **(S)**
An examination of the most familiar types of literature found in the secondary school English Curriculum today, and the development of strategies for organizing and providing a variety of literary experiences for students who differ in intellectual abilities and literary tastes.

EDS 425 – STUDENT TEACHING (15) **(F,W,S)**
Supervised teaching in a junior or senior high school. Prerequisites: EDU 305, EDU 311, EDU 312, the appropriate Special Teaching

Laboratory, and two-thirds of the course work required in the student's teaching field.

EDS 505 – SPECIAL TEACHING LABORATORY: READING (5) **(F,W,S,SS)**
Development of instructional skills, techniques, and strategies for teaching reading in the junior and senior high school. Attention to attaining competence in subject-matter related reading skills.

EDS 595 – INDIVIDUAL STUDY (1-5) **(F,W,S,SS)**
The student plans and carries out an independent study project under direction. Prerequisites: Consent of chairman of the division.

EDS 606 – TEACHING READING IN THE SECONDARY SCHOOL (4)
Development of skills necessary to identify reading problems in the classroom. Emphasis on how to use reading inventories and diagnostic tests as well as material and techniques for teaching reading skills and assisting students to overcome reading deficiencies. Special attention to reading problems of students in the specific subject areas. For the reading specialist. Prerequisites: one course in reading.

EDS 608 – COMMUNICATION THROUGH NON-PRINT MEDIA (4) **(S)**
Development of a rationale for teaching-non-print media both as supportive of the literature and language programs and as art forms with unique modes of expression. Acquisition of technical skills needed to integrate non-print media into classroom instruction. Special emphasis on creating individual projects.

EDS 609 – TEACHING MATHEMATICS IN THE SECONDARY SCHOOL (4) **(W)**
Analysis of methods, programs, and materials for teaching mathematics in the junior and senior high school and development of teaching skills.

EDS 614 – TEACHING ENGLISH IN THE SECONDARY SCHOOL (4) **(F)**
Analysis of methods, programs, and materials for teaching English in the junior and senior high school and development of teaching skills.

EDS 615 – TEACHING MODERN LANGUAGES IN THE SECONDARY SCHOOL (4) **(W)**
Analysis of methods, programs, and materials for teaching modern languages in the junior and senior high school and development of teaching skills.

EDS 616 – SEMINAR IN MATHEMATICS EDUCATION (4) **(S)**
Designed to provide the advanced student with deeper understanding of the current state of Mathematics Education. Major emphasis on

current trends and curriculum projects on the national and international levels, as well as evaluation and research related to these trends.

EDS 617 – TEACHING BIOLOGICAL SCIENCES IN THE SECONDARY SCHOOL (4) **(S)**

Analysis of methods, programs and materials for teaching the biological sciences in the junior and senior high school and development of teaching skills.

EDS 618 – TEACHING PHYSICAL SCIENCES IN THE SECONDARY SCHOOL (4)

Analysis of methods, programs, and materials for teaching the physical sciences in the junior and senior high school and development of teaching skills.

EDS 619 – TEACHING SOCIAL STUDIES IN THE SECONDARY SCHOOL (4) **(F)**

Analysis of methods, programs, and materials for teaching social studies in the junior and senior high school and development of teaching skills.

EDS 625 – SECONDARY SCHOOL CURRICULUM (4) **(W,S)**

Examination of programs, trends, and developments in curriculum and instruction in the secondary school. Consideration and evaluation of innovations.

EDS 626 – TEACHING MODERN GRAMMAR AND USAGE IN THE SECONDARY SCHOOL (4)

Development of a rationale for teaching grammar. Acquisition of linguistic skills needed for the study of language. Emphasis on the examination of several grammars and the problems of teaching them in the English classroom. Special attention to usage and the larger problem of dialectology as it relates to written and oral English. Prerequisite: At least one course in Linguistics or consent of instructor.

EDS 628 – RESEARCH IN SECONDARY EDUCATION (4)

Examination and evaluation of research studies in secondary education. Prerequisite: At least one course in research methods or equivalent competency. Determination of equivalent competency will be made by the instructor.

EDS 629 – SEMINAR IN SOCIAL STUDIES EDUCATION (4) **(S)**

Designed for advanced students, the readings and discussions will focus on policy issues and recent research in social studies education. Though primarily for experienced social studies teachers and supervisors, the course is open to administrators and others with the consent of the instructor.

EDS 639 – SEMINAR IN ENGLISH EDUCATION (4) (W)
Designed for advanced students, the readings and discussions will focus on policy issues and recent research in social studies education. Though primarily for experienced social studies teachers and supervisors, the course is open to administrators and others with the consent of the instructor.

EDS 649 – SEMINAR IN SCIENCE EDUCATION (4)
Analysis of research trends and selected topics in Science Education. Mainly for graduate students in secondary Science Education. Individual needs and interests will determine the fine structure of the course content.

EDS 695 – SUPERVISED FIELD EXPERIENCE (5-15)
Field work in an educational institution or organization. Prerequisite: Consent of chairman of the division.

EDS 696 – SEMINAR IN SECONDARY EDUCATION (3)
Analysis of selected problems in secondary education.

EDS 697 – WORKSHOP IN SECONDARY EDUCATION (3-5)
Study of specific problems in secondary education. Prerequisite: Consent of instructor.

DIVISION OF PSYCHO-EDUCATIONAL SERVICES

Programs sponsored by the Division of Psycho-Educational Services are an alliance between those subspecialities in education whose major role is to help individuals experiencing academic or social adjustment problems in the schools. Competency domains are specified for teachers of exceptional children, for consultant or diagnostic teachers, for counselors and school psychologists. The context is one of preparing students for practice in the urban environment. Students are helped to integrate theory and research from the social and behavioral sciences and to develop the capability for identification with people of diverse cultural and racial heritage.

The program emphasizes the development of competencies in diagnosing learning and behavior problems, and prescribing and implementing an appropriate curriculum for exceptional children and youth. Trainees are prepared to conduct total classroom experiences for exceptional children, and, in addition, to reintegrate into the mainstream of education those students who are able to function full or part-time in the regular classroom. Programs have been planned to meet the requirements of the Florida State Department of Education for Rank 3 certification in each of the following areas of specialization: Mental Retardation, Emotional Disturbance, and Specific Learning Disabilities.

LOWER DIVISION PREPARATION:

Required Courses: Foundations of Education, (See page 246) 10 credits.

Recommended Courses: One course in psychology dealing with dynamics of behavior (or educational psychology), one course in cultural anthropology (or introductory sociology).

UPPER DIVISION PROGRAM:

1. Professional Education			CREDITS
EDU	305	– Schooling in America K-14	5
EDU	311	– General Teaching Lab, I	5
EDU	312	– General Teaching Lab, II	5
EEC	306	– Introduction to Exceptional Children and Youth	5
EEC	309	– Introduction to Language Development and Communications Disorders	5
EEC	315	– Assessment of Exceptional Children and Youth	5
EEC	316	– Foundations of Exceptionality	5
EEL	401	– Communications Skills, I	5
EEC	405	– Academic Skills for Exceptional Children, I	5
EEC	406	– Academic Skills for Exceptional Children, II	5
One of the following 3 courses depending upon major:			
EEC	407	– Educational Planning for the Mentally Retarded	5
		OR	
EEC	408	– Educational Planning for Specific Learning Disability	5
		OR	
EEC	409	– Educational Planning for Behavior Disorders	5
EEC	411	– Behavioral Approaches to Classroom Learning, I	5
EEC	412	– Behavioral Approaches to Classroom Learning, II	5
EEC	425	– Student Teaching	15
2. Electives			10

GRADUATE PROGRAMS

The Division of Psycho-Educational Services prepares Master's level resource and consulting personnel whose major function is to help students who are experiencing academic or social adjustment problems in the schools, competencies are stressed in the assessment of academic and social behaviors, educational programming, individual and group behavior change strategies, compensatory education and general child advocacy.

Applicants for a Masters degree must file an application with the Office of Admission which includes a transcript of academic records and GRE scores. In addition, they must submit to the Graduate Admissions Committee of the Division: a) Three recommendations, at least one from academic sources and one from work or volunteer experience; b) an autobiography, including a record of work experience. Once this material is received, applicants are scheduled for a group interview. Criteria for admission include consideration of GRE scores and academic record, personal references, and the candidate's clarity in presenting career aspirations, social interaction skills, clarity in presenting professional

strengths and weaknesses, evidence of a service orientation (to individuals and community) and willingness to commit time to field experiences during training.

Applicants to the program in Diagnostic Teaching must have completed an undergraduate training program in Special Education or possess a Rank III certificate or equivalent in another area of education.

Graduate programs of study are available in the following areas:

Diagnostic Teaching

The major competencies of the Masters level diagnostic teacher are an extension of those developed by the student in the undergraduate special education curriculum: a) Assessment of learning styles through observation and on-going monitoring techniques; b) application of behavioral approaches to the building, monitoring and remediation of classroom behavior; c) communication of information concerning children to others within the school and to parents; d) behavioral change monitoring; e) curriculum planning and innovations; f) teacher and parent consultation; g) supervision of special education units.

The program of study is 45-60 hours, depending upon the student's background. Areas of specialization include: Intellectual Differences, Behavior Disorders, and Learning Disabilities.

The program leads to Rank 2 certification in the State of Florida in either Mental Retardation, Emotional Disturbance or Specific Learning Disabilities.

PROGRAM OF PREPARATION

"IN FIELD" MAJORS

The following program of study is for students who hold an undergraduate degree in Special Education from Florida International University. Students with undergraduate majors in Special Education from other training institutions must plan a program with their academic adviser to insure they have the entry skills covered in this program.

A. GENERAL PROFESSIONAL EDUCATION			CREDIT
EDU	507	Analysis and Application of Educational Research	4
B. AREA OF SPECIALIZATION			
PPS	505	Professional Problems in Special Education and Pupil Personnel Services	2
EEC	605	Organization and Administration of Special Education Programs	4
EEC	606	Program Evaluation in Special Education	4
EEC	609	Diagnostic Teaching	3-10
EEC	695	Supervised Field Experience in Special Education	5
PPS	621	Assessment of Behavior I	5

NOTE: One of the following three courses depending upon area of certification pursued:

EEC	615	Advanced Theory and Practice: Mental Retardation	4
		OR	
EEC	616	Advanced Theory and Practice: Specific Learning Disability	4
		OR	
EEC	617	Advanced Theory and Practice: Behavior Disorders	4
PPS	602	Behavioral Counseling and Consultation, II	5
C. ELECTIVES			1-8

"OUT OF FIELD" MAJORS

Students with other undergraduate majors in education should consult with an academic adviser for an evaluation of entry competencies to the program. If entry competencies cannot be demonstrated either on the basis of course equivalents, work experience or actual performance tests, students will be asked to complete one or more of the following courses in addition to those listed above:

			CREDIT
EEC	407	Educational Planning for the Mentally Retarded	5
		OR	
EEC	408	Educational Planning for Specific Learning Disability	
		OR	
EEC	409	Educational Planning for Behavior Disorders	
EEC	608	Exceptional Children and Youth	4
EEC	695	Supervised Field Experience in Special Education	5-10
PPS	601	Behavioral Counseling and Consultation, I	5

Counselor Education

The program in counselor education requires 90 hours of credit and six (6) quarters of graduate study. The first three quarters are largely generic in nature and lead to the development of competencies in individual and group counseling and other social and behavioral change techniques; consultation; program organization and evaluation, and coordination of school and community-centered interventions. Training patterns are more differentiated during the last three quarters and lead to specialization in the following areas: a) counseling in the elementary schools; b) counseling at the secondary school level; c) counseling in higher education; d) vocational counseling; and e) community counseling.

The program qualifies students for certification in "Guidance" in the State of Florida and meets the standards for preparation of counselors recommended by the American Personnel and Guidance Association.

PROGRAM OF PREPARATION

A. GENERAL PROFESSIONAL EDUCATION			CREDIT
EDU	507	Analysis and Application of Educational Research	4
B. AREA OF SPECIALIZATION			
PPS	505	Professional Problems in Special Education and Pupil Personnel Services	2
PPS	506	Introduction to Counseling	5
PPS	507	Human Interaction I: Personal Development Laboratory	3
PPS	508	Educational and Vocational Guidance	5
*PPS	601	Behavioral Counseling and Consultation I	5
PPS	602	Behavioral Counseling and Consultation II	5
PPS	628B	Advanced Practica in Pupil Personnel Services: Behavioral Counseling and Consultation	5
PPS	611	Human Interaction II: Interpersonal Change and Group Process Laboratory	5
PPS	612	Human Interaction III: Organizational Consultation	5
PPS	625	Organization, Administration and Supervision of Pupil Personnel Services	4
PPS	626	Program Evaluation in Pupil Personnel Services	4
PPS	695	Supervised Field Experience in Pupil Personnel Services	15

*Required only if student has not taken EEC 411 or its equivalent.

C. ELECTIVES 23

Students should consult with their academic adviser for guidance in selecting electives appropriate for specialization in elementary school or secondary school counseling, counseling in higher education, vocational or community counseling.

3. **School Psychology.**
The program in school psychology requires 90 hours of credit and six (6) quarters of graduate study. In general, the competencies to be demonstrated by the student completing this program are derived from the following concept of role behaviors for the school psychologist: Behavioral/educational assessment and planning; counseling and child-centered consultation with teachers, parents and agency representatives; staffing, liaison, referral and case management; program development and evaluation; inservice education, administrative consultation and community development.

PROGRAM OF PREPARATION

A. GENERAL PROFESSIONAL EDUCATION			CREDIT
EDU	507	Analysis and Application of Educational Research	4

B. AREA OF SPECIALIZATION

PPS	505	Professional Problems in Special Education and Pupil Personnel Services	2
PPS	507	Human Interaction I: Personal Development Laboratory	3
*PPS	601	Behavioral Counseling and Consultation, I	5
PPS	602	Behavioral Counseling and Consultation, II	5
PPS	628B	Advanced Practica in Pupil Personnel Services: Behavioral Counseling and Consultation	5
PPS	611	Human Interaction II: Interpersonal Change and Group Process Laboratory	5
PPS	621	Assessment of Behavior I	5
PPS	622	Assessment of Behavior II	5
PPS	628D	Advanced Practica in Pupil Personnel Services: Psycho-Educational Assessment and Consultation	5
PPS	625	Organization, Administration and Supervision of Pupil Personnel Services	4
PPS	626	Program Evaluation in Pupil Personnel Services	4
EEC	609	Diagnostic Teaching	3-15
PPS	695	Supervised Field Experience in Pupil Personnel Services	15

*Required only if student has not taken EEC 411 or its equivalent

C. ELECTIVES 8-20

Undergraduate majors in education are encouraged to select electives in the Social and Behavioral Sciences. Undergraduate majors in Psychology or similar areas are encouraged to build their competencies in Education.

SPECIAL EDUCATION

EEC 306 – INTRODUCTION TO EXCEPTIONAL CHILDREN AND YOUTH **(F,W)**

Development of significant concepts in relation to the learning and adjustment problems of exceptional children including classification systems, general learning and behavioral characteristics, instructional goals and curriculum plans for the full range of exceptionalities. Field experiences required.

EEC 309 – INTRODUCTION TO LANGUAGE DEVELOPMENT AND COMMUNICATION DISORDERS (5) **(F,W)**

Development of skills in the assessment of and programming for language development in the classroom. Competencies in classroom programming for the various speech and language disorders of children.

EEC 315 – ASSESSMENT OF EXCEPTIONAL CHILDREN AND YOUTH (5) **(S,SS)**

Development of competencies in the assessment of the basic

modalities of learning with particular emphasis on the visual, auditory, haptic and perceptual-motor processes, and the language areas of reading, writing, spelling and mathematics.

EEC 316 – FOUNDATIONS OF EXCEPTIONALITY (5) **(W,S)**
Basic concepts in relation to the biological, genetic, psychological and social foundations of handicapping conditions as they apply to classroom behaviors. Pathology of mental retardation, behavior disorders, and specific learning disability. Development of skills in coordinating teaching with total therapeutic and rehabilitative programs.

EEC 405 – ACADEMIC SKILLS FOR EXCEPTIONAL CHILDREN, I (5) **(F,W,S)**
Development of competencies in evaluating academic skill assets and deficits, in selection, adaptation and preparation of appropriate instructional materials based on an understanding of sequential skills in language, reading and arithmetic. Skill in the use of audio-visual equipment and other prescribed multi-media approaches to instruction. Prerequisite: EEC 309.

EEC 406 – ACADEMIC SKILLS FOR EXCEPTIONAL CHILDREN, II (5) **(F,W,S)**
Further development of skills in a systems approach to individualized instruction in the classroom, including competencies in the design and implementation of teaching strategies for language, reading, arithmetic, writing and spelling. Prerequisite: EEC 405.

EEC 407 – EDUCATIONAL PLANNING FOR THE MENTALLY RETARDED (5) **(W,SS)**
Development of concepts and skills in the use of classroom space, materials and community resources for the educational, prevocational and occupational development of mentally retarded individuals. Experience will relate to existing legal and organizational structures at the local, state and federal levels.

EEC 408 – EDUCATIONAL PLANNING FOR SPECIFIC LEARNING DISABILITY (5) **(W,SS)**
Development of concepts and skills with the various models of curriculum, instruction and classroom design for individuals with learning disabilities. Demonstration of competencies with instructional materials appropriate for remedial, developmental, and/or compensatory programs, the writing of prescriptive programs of instruction, and the development of occupational curriculum and total life planning for pupils with learning disabilities at the Junior and Senior high school level. Experiences will relate to existing legal and organizational structures at the local, state and federal levels.

EEC 409 – EDUCATIONAL PLANNING FOR BEHAVIOR DISORDERS (5) (W,SS)

Development of concepts and skills with the various models of curriculum, instruction, and classroom design for individuals with behavior disorders. Demonstration of competencies in the development of occupational curriculum and total life planning for the behavior disordered. Experiences will relate to existing legal and organizational structures at the local, state and federal levels.

EEC 411 – BEHAVIORAL APPROACHES TO CLASSROOM LEARNING, I (5) (F,W,S,SS)

Development of concepts and skills for building and modifying the social and academic behavior of exceptional children and youth. Competencies in precision teaching, behavior modification in the classroom and the functional analysis of behavior as it relates to classroom learning and the educational setting.

EEC 412 – BEHAVIORAL APPROACHES TO CLASSROOM LEARNING, II (5) (W,S,SS)

Concepts and skills necessary for the management and maintenance of classroom behavior, including competencies in establishing a socially engineered classroom, a token economy system, group and individual contingency management and contracting systems, record keeping, and skills in conducting parent and/or teacher consultations in the area of behavior modification. Prerequisite: EEC 411.

EEC 415 – CRITICAL ISSUES IN SPECIAL EDUCATION (3-5) (F,W,S)

A seminar on current and emerging issues in the education of exceptional children designed to help students integrate research findings and other information with their field experiences.

EEC 425 – STUDENT TEACHING (15) (F,W,S)

A field experience in a program for exceptional children, demonstrating competencies learned throughout the program.

EEC 595 – INDIVIDUAL STUDY IN SPECIAL EDUCATION (3-10) (F,W,S,SS)

Concepts or competencies contracted for between a student and an instructor in accordance with the student's individual needs.

EEC 605 – ORGANIZATION, ADMINISTRATION AND SUPERVISION OF SPECIAL EDUCATION PROGRAMS (4) (S)

Development of concepts and skills for organizing, administering and supervising service programs in special education. Demonstration of competencies in regard to major role and service models and in the application of legal and ethical standards.

EEC 606 – PROGRAM EVALUATION IN SPECIAL EDUCATION (4) (W,S)

Development of evaluation skills in student's area of program

specialization, including competencies in defining evaluation strategies, assessing published evaluation studies, assessing written evaluation proposals, performing an onsite evaluation of an on-going program and communicating this evaluation.

EEC 608 – EXCEPTIONAL CHILDREN AND YOUTH (4) (F,SS)
Development of significant concepts in relations to the learning and adjustment problems of the exceptional, including classification, etiology, general social and learning characteristic, instructional goals, curriculum and total therapeutic planning. Field experience and graduate project required.

EEC 609 – DIAGNOSTIC TEACHING (3, repeatable to 15) (F,W,S,SS)
A total package of competencies individualized for students and carrying varying hours of credit according to needs (which are established on the basis of entry skills as assessed by the instructors). The range of competencies include: advanced skills in the classroom assessment of children's social and academic behavior, including the use of both observational and standardized techniques; skills in prescribing, writing and consultation on developmental, remedial and compensatory programs of instruction for children (whether in the regular or special classroom or resource room); skill in the selection, adaptation and preparation of appropriate instructional materials for individualized instruction; skill in the use of audio-visual media and other prescribed multi-media approaches to instruction. Prerequisite: PPS 621.

EEC 615 – ADVANCED THEORY AND PRACTICE: MENTAL RETARDATION (4) (S)
Concepts of the major theories in the area of mental retardation and skills in their application to education.

EEC 616 – ADVANCED THEORY AND PRACTICE: SPECIFIC LEARNING DISABILITY (4) (S)
Concepts of the major theories in the area of specific learning disability and skills in their application to education.

EEC 617 – ADVANCED THEORY AND PRACTICE: BEHAVIOR DISORDERS (4) (S)
Concepts of the major theories in the area of behavior disorders, and skills in their application to education.

EEC 695 – SUPERVISED FIELD EXPERIENCE IN SPECIAL EDUCATION (5-15) (F,W,S,SS)
Demonstration of the full range of competencies in Diagnostic Teaching learned throughout the program. Internship placements are made in a variety of field settings and joint University and field supervision is provided through individual conference and continuing seminars.

EEC 696 – SEMINARS IN SPECIAL EDUCATION
(4, repeatable to 12) **(F,W,S,SS)**

A. Topics in Mental Retardation
B. Topics in Specific Learning
C. Topics in Behavior Disorders

PUPIL PERSONNEL SERVICES

PPS 505 – PROFESSIONAL PROBLEMS IN SPECIAL EDUCATION AND PUPIL PERSONNEL SERVICES
(2, repeatable to 6) **(F,W,S)**

Development of orientation skills to the professions of counseling, school psychology and special education. Demonstration of behavior leading to effective interdisciplinary collaboration, conformity with ethical and legal codes, and which is reponsive to the demands of the urban environment and multi-racial, multi-cultural society.

PPS 506 – INTRODUCTION TO COUNSELING (5) **(F,SS)**

Development of major theoretical concepts for counseling. Competencies in relationship-building, interviewing, role-playing, simulation and micro-counseling.

PPS 507 – HUMAN INTERACTION I: PERSONAL DEVELOPMENT LABORATORY (3) **(F,W,SS)**

Development of skills in interpersonal communications, feedback and the change learning process. Competencies in analyzing group process (e.g., developmental phases, norm development, member and leader behavior) and with instrumentation.

PPS 508 – EDUCATIONAL AND VOCATIONAL GUIDANCE (5) **(S,SS)**

Development of concepts and skills for assisting individuals in making choices about education, vocations, and careers. Competencies in making job analyses, establishing systems for classifying material, developing occupational information programs and in the critical analysis of occupational materials.

PPS 601 – BEHAVIORAL COUNSELING AND CONSULTATION I (5) **(F,SS)**

Development of concepts and skills for using behavior modification techniques, precision teaching and functional analysis of behavior as it pertains to the educational setting. Competencies in establishing token economy systems, group and individual contingency management, contingency contracting, conducting parent and/or teacher consultation in the area of behavior modification, and in-service training.

PPS 602 – BEHAVIORAL COUNSELING AND CONSULTATION II (5) **(W)**

Extended laboratory experiences stressing the development of skills in behavioral approaches to individual and group counseling, consultation, parent education, and in-service training. Prerequisite: PPS 601 or equivalent.

PPS 611 – HUMAN INTERACTION II: INTERPERSONAL CHANGE AND GROUP PROCESS LABORATORY (5) **(W)**

Demonstration of skills in small group development and change. Competencies in diagnosis and intervention in small groups with special emphasis given to problems of inter-cultural and inter-racial relations. Prerequisite: PPS 507 or its equivalent.

PPS 612 – HUMAN INTERACTION III: ORGANIZATIONAL CONSULTATION (5) **(S)**

Demonstration of concepts and skills in organizational development and change with particular focus on the schools. Competencies in systematic consultation, assessment (survey feedback, milling, confrontation meetings, systems analysis) agenda setting, interviewing, third-party consultation for conflict management, team-building, negotiation, decision-making and feedback sessions. Prerequisite: PPS 611 or its equivalent.

PPS 621 – ASSESSMENT OF BEHAVIOR I (5) **(F,W)**

Basic concepts in assessment theory and use of standardized tests. Competencies in assessing and writing educational prescriptions for functional disorders in auditory, visual and haptic processing, in language and integrative systems. Skill development in administration and interpretation of a variety of standardized tests used in assessment of the learning problems of exceptional children and youth.

PPS 622 – ASSESSMENT OF BEHAVIOR II (5) **(W)**

Concepts and skills in the assessment of intelligence with a particular emphasis on the problems of assessing mental retardation, giftedness, and minority groups. Skill development with the traditional standardized tests of intelligence, measures of social adaptability and alternative methods of assessment. Prerequisite: PPS 621.

PPS 625 – ORGANIZATION, ADMINISTRATION AND SUPERVISION OF PUPIL PERSONNEL SERVICES (4) **(S)**

Development of concepts and skills in the organization, administration and supervision of service programs in counseling, school psychology and other areas of pupil personnel.

PPS 626 – PROGRAM EVALUATION IN PUPIL PERSONNEL SERVICES (4) **(W,S)**

Development of evaluation skills in student's area of program specialization, including competencies in defining evaluation stra-

tegies, assessing published evaluation studies, assessing written evaluation proposals, performing an onsite evaluation of an on-going program and communicating this evaluation.

PPS 627 – CAREER DEVELOPMENT THEORY AND PRACTICE (4) **(W)**

Development of concepts and skills related to vocational choice and decision-making processes. Competencies in the administration and interpretation of tests used in vocational counseling.

PPS 628 – ADVANCED PRACTICA IN PUPIL PERSONNEL SERVICES (5, repeatable to 15) **(S)**

A. Group Process
B. Behavioral Counseling and Consultation
C. Vocational Counseling
D. Psycho-Educational Assessment and Consultation

PPS 695 – SUPERVISED FIELD EXPERIENCE IN PUPIL PERSONNEL SERVICES (5-15) **(F,W,S)**

Demonstration of the full range of competencies learned throughout the programs in Counseling or School Psychology. Internship placements are made in a variety of field settings and joint University and field supervision is provided through individual conferences and continuing seminars.

PPS 696 – SEMINARS IN PUPIL PERSONNEL SERVICES (4, repeatable to 12) **(F,W,S,SS)**

Special topics in relation to counseling or school psychology.

PPS 698 – INDIVIDUAL STUDY IN PUPIL PERSONNEL SERVICES (3-10) **(F,W,S,SS)**

Competencies contracted for between a student and an instructor in accordance with the student's individual needs.

DIVISION OF HEALTH, PHYSICAL EDUCATION, RECREATION AND ATHLETICS

All programs in the Division of Health, Physical Education, Recreation and Athletics follow a performance-based format. The programs are self-paced, and allow for a great deal of individualized instruction.

UNDERGRADUATE PROGRAM:

Programs in the Division relating to teacher education are designed to meet requirements for certification leading to a Bachelor of Science degree in either Health Education or Physical Education. A Bachelor of Science degree is also granted to students completing the competencies of the Parks and Recreation Management curriculum. Students receiving a degree in Health Education are certified to teach in Grades 7 through 12; students receiving a degree in Physical

Education are certified to teach in Grades 1 through 12. Upon completion of a required core, students are offered a wide range of options which include specialization in elementary or secondary school physical education. Parks and Recreation Management majors are also given an opportunity to develop programs consistent with their interests and career goals.

GRADUATE PROGRAM:

The Division offers a Master of Science degree in Curriculum and Instruction with an emphasis in either Health Education or Physical Education. Applicants wishing to enroll in the program must possess a Baccalaureate degree. A minimum of 45 quarter hours is required to complete the program. Additional hours may be required if the background of the student is deficient. Students seeking certification who do not have an undergraduate degree in their field of specialization must meet the State of Florida requirements for professional training or experience.

Within the Division, programs in recreational activities, intramural sports, club sports and varsity sports are offered to all students attending the University. For further information on these activities students should refer to the section in the Catalog on athletics.

TEACHERS OF HEALTH EDUCATION, GRADES 7-12

LOWER DIVISION PREPARATION:

Required:
Foundations of Education, (See page 246) 10 credits.

Recommended:
Equivalents of personal health, anatomy or physiology, and bacteriology are offered in the community college programs and students are urged to take these courses before entering Florida International University.

UPPER DIVISION PROGRAM:

1. **Subject Matter Specialization**			CREDITS
BIOLOGY courses in the upper division to include BACTERIOLOGY OR MICROBIOLOGY AND HUMAN ANATOMY OR PHYSIOLOGY			15
2. **Professional Education**			
EDU	305	— Schooling in America K-14	5
EDU	311	— General Teaching Laboratory I	5
EDU	312	— General Teaching Laboratory II	5
EDS	505	— Special Teaching Lab: Reading	5
HED	405	— Special Teaching Lab: Health Education	5
HED	406	— Healthful Living: Personal	5
HED	407	— Healthful Living: Community	5
HED	408	— School Programs in Health Education	5
HED	409	— School Health Services	5
HED	410	— Drug Education	5

HED	411	— Critical Issues in Health Education	5
HED	425	— Student Teaching	15

3. Advised Electives

HED	412	— Problems in School Health Education	5
HED	413	— Independent Study	2-5
HSM	304	— Delivery Systems	5

TEACHERS OF PHYSICAL EDUCATION, GRADES 1-12

LOWER DIVISION PREPARATION

Required:
Foundations of Education, (See page 246) 10 credits.

Recommended:
Equivalents of personal health, physiology and various skill courses are offered in community college programs and students are urged to take these courses before entering Florida International University.

UPPER DIVISION PROGRAM:

1. Subject Matter Specialization			CREDITS
BSC	374	— Physiology	5

2. Professional Education

EDU	305	— Schooling in America	5
EDU	311	— General Teaching Laboratory I	5
EDU	312	— General Teaching Laboratory II	5
EDS	505	— Special Teaching Lab: Reading	5
PHE	305	— Kinesiology	5
PHE	306	— Exercise Physiology	5
PHE	308	— Socio-Psychological Perspectives of Physical Activity	5
PHE	309	— Adapted Physical Education	5
PHE	405	— Special Teaching Lab: Physical Education	5
PHE	411	— Theory and Practice in Physical Activities	5
HED	406	— Healthful Living: Personal	5
PHE	425	— Student Teaching	15
PHE	436	— Evaluation in Physical Education	5

3. Advised Electives: Elementary Emphasis

PHE	412	— Rhythms and Dance	5
PHE	408	— Movement Education in the Elementary School	5
EEL	307	— Health & Physical Education in the Elementary School	5

4. Advised Electives: Secondary Emphasis

PHE	407	— Coaching Sports	5
PRM	415	— School and Community Recreation Programs	5
PHE	416	— Athletic Injuries	5
HED	410	— Drug Education	5

PARKS AND RECREATION MANAGEMENT

LOWER DIVISION PREPARATION:

Required Courses: Introductory Sociology and Mathematics

Recommended Courses: It is recommended that students desiring to enter the Parks and Recreation Management curriculum be graduates of a two-year program in recreation leadership or its equivalent.

UPPER DIVISION PROGRAM:

1. Professional Education			CREDITS
ACC	300	— Accounting for Decisions	5
PRM	305	— Principles of Park and Recreation Management	5
PRM	307	— Care and Maintenance of Grounds	5
PRM	350	— Personnel Management in Parks and Recreation	5
BUA	309	— Organization and Management	5
PRM	375	— Program Development in Parks and Recreation Management	5
HRM	305	— Operations Control	5
PRM	497	— Seminar in Parks and Recreation Management	5
PRM	425	— Internship	15-30

2. Advised Electives

Students will take 20-35 electives after consultation with their adviser.

MASTER OF SCIENCE IN EDUCATION

SPECIALTY: Health Education

A. PROFESSIONAL EDUCATION			13 quarter hours
1. EDU	507	— Analysis and Application of Educational Research	4
2. EDU	506	— Analysis of Teaching	4
3. PSY	601	— Special Topics in Educational Psychology	5
B. AREA OF SPECIALIZATION			**16 quarter hours**
1. HED	505	— Current Concepts in Community Health	4
2. HED	697	— Creative Workshop in Health Education	4
3. HED	506	— Health Curriculums in Public Schools	4
4. HED	507	— Educational Approaches to Health Problems	4
C. ELECTIVES			**16 quarter hours**

SPECIALTY: Physical Education — Elementary

A. PROFESSIONAL EDUCATION			13 quarter hours
1. EDU	507	— Analysis and Application of Educational Research	4
2. EDU	506	— Analysis of Teaching	4

3. PSY 601 — Special Topics in Educational Psychology 5

B. AREA OF SPECIALIZATION: ELEMENTARY SCHOOL PHYSICAL EDUCATION 19 quarter hours

1. EEL 605 — Curriculum Design for Childhood Education 3
2. PHE 505 — Creative Workshop in Physical Education 4
3. PHE 506 — Perceptual Motor Learning 4
4. PHE 507 — Curriculum Development in Physical Education 4
5. PHE 696 — Seminar in Physical Education 4

C. ELECTIVES 13 quarter hours

SPECIALTY: Physical Education — Secondary

A. PROFESSIONAL EDUCATION 13 quarter hours

1. EDU 507 — Analysis and Application of Educational Research 4
2. EDU 506 — Analysis of Teaching 4
3. PSY 601 — Special Topics in Educational Psychology 5

B. AREA OF SPECIALIZATION: SECONDARY SCHOOL PHYSICAL EDUCATION 16 quarter hours

1. PHE 507 — Curriculum Development in Physical Education 4
2. PHE 505 — Creative Workshop in Physical Education 4
3. SOC 535 — Sociology of Sport 4
4. PHE 436 — Evaluation in Physical Education 4

C. ELECTIVES 16 quarter hours

HEALTH, PHYSICAL EDUCATION, RECREATION

HEALTH EDUCATION

HED 405 — SPECIAL TEACHING LABORATORY: HEALTH EDUCATION (5) **(F,S)**

This course is designed to develop competencies directly associated with classroom teaching. Students will be expected to demonstrate these competencies in a variety of public school situations.

HED 406 — HEALTHFUL LIVING: PERSONAL (5) **(S)**

Students will display their competencies in personal health by demonstrating their knowledge in class presentations in the area of diseases, mental illness, nutritional trends, and aspects of reproduction.

HED 407 – HEALTHFUL LIVING: COMMUNITY (5) **(F)**
Students will display their competencies in community health by identifying, observing, and discussing aspects of health that affect society such as ecology and pollution.

HED 408 – SCHOOL PROGRAMS IN HEALTH EDUCATION (5) **(W)**
Students will display their competencies by developing a school health curriculum and by demonstrating various approaches that can be utilized for teaching health.

HED 409 – SCHOOL HEALTH SERVICES (5) **(W)**
Students will display their competencies by actively participating with various agencies and services available to local schools.

HED 410 – DRUG EDUCATION (5) **(F,W,S)**
Following an in-depth study of different drugs and their effects on the individual and society the students will observe rehabilitation methods used at local treatment centers and will apply these methods in group sessions.

HED 411 – CRITICAL ISSUES IN HEALTH EDUCATION (5) **(S)**
The student will display competencies by distinguishing between and interpreting aspects of health which appear to be most important to society including legislative issues and public opinion.

HED 412 – PROBLEMS IN SCHOOL HEALTH EDUCATION (5) **(S,SS)**
Students will analyze current methods and design new techniques to aid in solving problems associated with school health education which affect curriculum, subject matter and educational outcomes.

HED 413 – INDEPENDENT STUDY (5) **(F,W,S,SS)**
Designed to give individual students an opportunity to explore topics of interest under close supervision of an instructor. Permission must be granted by both the instructor and the division chairman.

HED 425 – STUDENT TEACHING (15) **(F,W,S)**
During the student's internship he or she will demonstrate those competencies which are characteristic of a competent health education teacher.

HED 505 – CURRENT CONCEPTS IN COMMUNITY HEALTH (4) **(W)**
Students will examine the attitudes of people with various social backgrounds and will demonstrate in discussions how these different attitudes relate to the formulation of community health programs.

HED 506 – HEALTH CURRICULUMS IN PUBLIC SCHOOLS (4) **(S)**
Students will develop and analyze various health curriculums and validate their appropriateness to various age groups.

HED 507 – EDUCATIONAL APPROACHES TO HEALTH EDUCATION (4) **(W)**

Students will select various modern techniques and tools for teaching elementary health education and employ these techniques and tools in a classroom setting.

HED 595 – INDIVIDUAL STUDY (1-5) **(F,W,S,SS)**

Designed for individuals to work independently on health education topics of their choice under the direction of faculty member. Permission of the instructor and division chairman is needed.

HED 695 – SUPERVISED FIELD EXPERIENCE (5-15) **(F,W,S,SS)**

A practical study pursued in an educational environment at a university, agency or school approved by the faculty. Approval to enroll will be granted upon submission of an acceptable proposal stating objectives and desired outcomes of such an experience.

HED 696 – SEMINAR IN HEALTH EDUCATION (3) **(S)**

Students will critically analyze issues and trends in health education and display their competencies by participating in in-depth discussions of their findings.

HED 697 – CREATIVE WORKSHOP IN HEALTH EDUCATION (5) **(SS)**

Students will show their competencies by creating new materials and techniques that will aid in conveying modern health concepts to their students.

HED 698 – SURVEY OF RESEARCH IN HEALTH EDUCATION (5) **(F)**

Students will demonstrate their competencies by gathering and analyzing pertinent health related research.

PHYSICAL EDUCATION

PHE 305 – KINESIOLOGY (5) **(F,S)**

This course is designed to provide students the opportunity to demonstrate in a teaching situation the application of various principles of movement.

PHE 306 – EXERCISE PHYSIOLOGY (5) **(W,S)**

Students will be expected to apply various aspects of the functioning of the human body to the development of physical education programs and the teaching of specific sport skills.

PHE 308 – SOCIO-PSYCHOLOGICAL PERSPECTIVES OF PHYSICAL ACTIVITY (5) **(F,W)**

After a study of cultural and psychological influences that activities have on children, students develop teaching competencies which will take into account individual differences.

PHE 309 – ADAPTED PHYSICAL EDUCATION (5) **(W,S)**

Competencies to be achieved include both a physiological and psychological understanding of atypical children and the ability to apply this knowledge in practical situations.

PHE 405 – SPECIAL TEACHING LABORATORY: PHYSICAL EDUCATION (5) **(F,W,S)**

This course is designed to develop competencies directly associated with classroom teaching. Students will be expected to demonstrate these competencies in a variety of public school situations.

PHE 407 – COACHING SPORTS (5) **(F,W,S)**

Students will be assigned to a coach to study and apply various coaching principles and techniques.

PHE 408 – MOVEMENT EDUCATION IN THE ELEMENTARY SCHOOL (5) **(S)**

After a brief introductory session students will be assigned to a particular elementary school where they will develop competencies in movement education programs for the elementary school age level.

PHE 411 – THEORY AND PRACTICE IN PHYSICAL ACTIVITIES (5) **(F,S)**

Students will be expected to attain competencies in eleven activities. Those students who do not meet given standards during the pre-testing phase will be allowed to meet these competencies through clinical work.

PHE 412 – RHYTHMS AND DANCE (5) **(W)**

A fundamental movement course based on music where the students will demonstrate teaching competencies in basic rhythms, fundamental dance movements, and folk dancing.

PHE 416 – ATHLETIC INJURIES (5) **(W)**

Students will demonstrate the proper care and prevention of athletic injuries through the application of acceptable training techniques.

PHE 425 – STUDENT TEACHING (15) **(F,W,S)**

During the student's internship he or she will demonstrate those competencies which are characteristic of a competent physical education teacher.

PHE 436 – EVALUATION IN PHYSICAL EDUCATION (5) **(F,W)**

Students will demonstrate the competencies in motor skill testing, grading, and analysis of written test scores that are necessary for successful teaching in physical education.

PHE 505 – CREATIVE WORKSHOP IN PHYSICAL EDUCATION (4) **(W)**

Students will create materials and teaching techniques for physical education. These materials and techniques will then be utilized in practical classroom situations.

PHE 506 – PERCEPTUAL MOTOR LEARNING (4) **(F)**

Students will demonstrate knowledge and understandings of various approaches to and theories of perceptual motor learning with special emphasis in physical education. Perceptual motor tasks will be performed as well as taught by the students.

PHE 507 – CURRICULUM DEVELOPMENT IN PHYSICAL EDUCATION (4) **(W)**

Students will develop their own curricula after examining and discussing modern curriculum theory. A problem-solving approach will be employed as students test their programs at various grade levels in the public schools.

PHE 509 – HISTORY OF PHYSICAL EDUCATION AND SPORT (4) **(S)**

Students will study the history of sport and will take part in writing their own review of sport from a chosen time in history.

PHE 535 – SOCIOLOGY OF SPORT (4) **(F)**

Students will demonstrate a thorough understanding of the sociological bases of sport and will actively engage in a field study involving a particular phase of sport and society.

PHE 595 – INDIVIDUAL STUDY (1-5) **(F,W,S)**

Students will work independently on a topic concerning some phase of physical education or sport under the guidance of a faculty member. Registration is by permission of adviser.

PHE 695 – SUPERVISED FIELD EXPERIENCE (5-15) **(F,W,S)**

Students may use this course to become involved in an in-depth field study, research project, or a variety of other activities under the guidance of a faculty member.

PHE 696 – SEMINAR IN PHYSICAL EDUCATION (4) **(W)**

Students will participate in the exploration, examination and discussion of problems, issues and trends in physical education and sport.

PHE 698 – SURVEY OF RESEARCH IN PHYSICAL EDUCATION (4) **(S)**

Following a survey of research in physical education, students will demonstrate competencies in applying this knowledge to teaching situations in the public schools.

PARK AND RECREATION MANAGEMENT

PRM 305 – PRINCIPLES OF PARK AND RECREATION MANAGEMENT (5) **(F)**

An exploration of the field of recreation and parks including career areas. Students will be expected to demonstrate competency in the knowledge of management responsibilities and supervisory level principles and theory.

PRM 307 – CARE AND MAINTENANCE OF GROUNDS (5) **(W)**

A study of procedures for maintaining outdoor facilities. Students will be expected to display competence in proper maintenance of areas normally found in parks and recreation centers.

PRM 350 – PERSONNEL MANAGEMENT IN PARKS AND RECREATION (5) **(W)**

After a study of how individuals work with one another in a management setting students will demonstrate competencies necessary for hiring staff, conducting group dynamics, communicating to the public, and administering democratically.

PRM 375 – PROGRAM DEVELOPMENT IN PARKS AND RECREATION MANAGEMENT (5) **(S)**

Students will attain competencies centered around developing objectives, planning a program, and implementing and administering the program.

PRM 415 – SCHOOL AND COMMUNITY RECREATION PROGRAMS (5) **(W)**

A study of recreation programs in the school and community which will enable a student to develop particular competencies utilizing school resources.

PRM 497 – SEMINAR IN PARKS AND RECREATION MANAGEMENT (5) **(S)**

A discussion of current problems, issues and trends in parks and recreation management which will help the student develop those competencies necessary to deal with every day aspects of particular programs.

PRM 425 – INTERNSHIP (15) **(F,W,S,SS)**

An on the job training program designed to enable students to develop those competencies which can only be gained from practical experience.

DIVISION OF VOCATIONAL AND ADULT EDUCATION

The Division of Vocational and Adult Education prepares and services professional personnel whose major functions are to teach, coordinate, supervise and administer vocational, and adult education programs in the nation's schools, colleges and other public and private agencies. The planned programs of preparation utilize a multi-school approach across academic disciplines within the University. The Division offers performance-based programs of preparation to develop competencies at the undergraduate and graduate level. In addition to formal degree programs the Division offers courses for specific areas of certification in vocational, and adult teacher/administration certification.

UNDERGRADUATE PROGRAMS

The Division offers undergraduate preparation leading to the degree of Bachelor of Science in Education with specialized majors in the following areas.

Industrial Arts Education
Technical Education
Vocational Home Economics Education
Vocational Industrial Education

Although the programs are designed for entry into the field of public education the candidate may seek employment in business, industry or other private agencies.

Applicants for admission are required to have an Associate Degree or equivalent course work. For specific entrance requirements consult the general admission statement for undergraduate students in this catalog.

Because of the wide range of entry level competencies and career goals each student in consultation with his adviser plans a program of study during the first quarter of enrollment.

TEACHERS OF VOCATIONAL HOME ECONOMICS EDUCATION

LOWER DIVISION PREPARATION:

Required Courses:
Foundations for Education (See page 246) for information, 10 credits.

Recommended Courses:
With reference to subject matter specialization (section 3 below), students are encouraged to take basic courses in each area in the lower division.

UPPER DIVISION PROGRAM:

1. Professional Education Preparation			CREDITS
EDU	305	Schooling in America	5
EDU	311	General Teaching Laboratory I	5
EDU	312	General Teaching Laboratory II	5
HEE	305	Home Economics Educational Planning	5
HEE	405	Instruction in Vocational Home Economics	5

HEE	406	Special Teaching Laboratory	5
EVO	425	Student Teaching	15

2. Technical Preparation
(Total of 65 quarter hours needed from lower and upper division)

Housing and Home Furnishing*	10
Management and Family Economics**	10
Family and Child Development**	15
Food and Nutrition**	15
Textiles and Clothing*	15

3. Advised Electives

Sub-specialty area of concentration	10

Competencies may be developed in one of the following six (6) fields:

a) One area of consumer and homemaking education
b) One area of wage-earning home economics
c) Education for the handicapped
d) Education for the culturally disadvantaged
e) Education for the adult learner
f) Educational settings in business, industry or public service agencies

*Courses offered in the School of Technology
**Courses offered in the School of Health and Social Services

TEACHERS OF INDUSTRIAL ARTS EDUCATION

LOWER DIVISION PREPARATION:

Required Courses:
Foundations of Education (See page 246) for information, 10 credits.

Recommended Courses:
With reference to subject matter specialization (Section 3 below) students are encouraged to take basic courses in each area in the lower division.

UPPER DIVISION PROGRAM:

1. Professional Education Preparation			CREDITS
EDU	305	Schooling in America	5
EDU	311	General Teaching Laboratory I	5
EDU	312	General Teaching Laboratory II	5
EVO	306	Course Planning in Vocational Education	5
EIA	405	Instruction in Industrial Arts	5
EVO	406	Special Teaching Laboratory	5
EVO	425	Student Teaching	15

2. Technical Preparation
A. Required: A minimum of 45 quarter hours are required for certification with a minimum of 10 quarter hours in each of the following areas.

Construction

IAT	305	Construction Technology	5
IAT	405	Construction Processes	5
IAT	420*	Architectural Drafting	5

Manufacturing

IAT	306	Manufacturing Technology	5
IAT	419	Materials Processing	5
IAT	415	Drafting I	5
		OR	
IAT	416	Drafting II	5
IAT	409*	Materials of Industry	
IAT	406*	Industrial Research and Development	5

Graphic Communications

IAT	307	Reprographics	5
IAT	407	Planographics	5
IAT	408*	Photographics	5

Power

IAT	417	Mechanical Power Systems I	5
IAT	418	Electrical/Electronics Systems	5
ENT	325*	Review of Electronic Concepts	5
IAT	422*	Mechanical Power Systems II	5

B. Technical Electives — See asterisked courses above and other courses offered by the School of Technology.

3. Advised Electives

Enough electives should be taken to equal a minimum of 90 quarter hours.

*Courses which are electives.

TEACHERS OF POST-SECONDARY TECHNICAL EDUCATION

LOWER DIVISION PREPARATION:

Required Courses:

Foundations of Education, (See page 246) 10 credits

Recommended Preparation:

Technical preparation in the student's intended area of teaching such as electronics technology, architectural technology, dental hygiene, commercial art, electronic data processing, electromechanical technology and other occupations requiring training beyond the twelfth grade.

UPPER DIVISION PROGRAM:

1. Professional Education Preparation

EDU	305	Schooling in America	5
EVO	509	Technical Education in American Society	4
EDU	311	General Teaching Laboratory I	5

EAD	509	Adult Teaching and Learning	4
EDU	312	General Teaching Laboratory II	5
EVO	306	Course Planning in Vocational Education	5
EVO	407*	Supervised Occupational Experience	5-15
		OR	
EVO	505	Credit by Examination	5-45
EVO	504	Educational Media	5
EVO	406	Special Teaching Laboratory	5
EVO	425	Student Teaching	15

2. Advised Electives
Science, Mathematics, Technology, Psychology, or Sociology 10

3. Free Electives
Enough electives should be taken to equal a minimum of 90 quarter hours.

*For students who lack acceptable occupational experience in the area to be taught.

TEACHERS OF VOCATIONAL INDUSTRIAL EDUCATION

LOWER DIVISION PREPARATION:

Required Courses:
Foundations of Education (See page 246) for information, 10 credits

Recommended Preparation:
Technical preparation in the student's intended area of teaching such as air conditioning and refrigeration, automotive repair, commercial foods preparation, cosmetology, electronics, machine shop trades and other industrial occupations.

UPPER DIVISION PROGRAM:

1. Professional Education Preparation			CREDITS
EDU	305	Schooling in America	5
EVO	305	Foundations of Vocational Education	5
EDU	311	General TeachingLaboratory I	5
EDU	312	General Teaching Laboratory II	5
EVO	306	Course Planning in Vocational Education	5
EVO	308	Vocational Education Laboratory Management and Safety	5
EVO	407*	Supervised Occupational Experience	5-15
		OR	
EVO	505	Credit by Examination	5-45
EVO	504	Educational Media	5
EVO	406	Special Teaching Laboratory	5
EVO	425	Student Teaching	15

2. Advised Electives

SOC	571	Man, Society and Technology	5
		OR	
SOC	581	Industrial Sociology	5
		OR	
PSY	350	Industrial Psychology	5
PPS	508	Educational and Vocational Guidance	5

3. Free Electives

Enough electives should be taken to equal a minimum of 90 quarter hours.

*For students who lack acceptable occupational experience in the area to be taught.

CERTIFICATION PROGRAMS

The Division offers programs for Rank III and Rank II vocational teacher certification.

The Standard Certificate Rank III program in Vocational Industrial, Technical and Health Occupations teacher education is designed to qualify practicing vocational education teachers for employment in comprehensive secondary schools, vocational skill centers, and/or technical institutes.

The Post Standard Certificate Rank II program in Industrial, Technical and Health Occupations teacher education is designed to extend practicing vocational education teachers certification for teaching in comprehensive secondary schools, vocational skill centers, and technical institutes.

RANK III VOCATIONAL TEACHER CERTIFICATION EDUCATION

The Standard Certificate in Rank III (valid for 5 years) will be issued by the State Teacher Certification Office to individuals having: (a) three years full-time teaching experience in vocational industrial education subjects, and (b) thirty (30) quarter hours in general education and vocational teacher education courses. Specific requirements can be found in Section 42 of the State Teacher Certification Guide.

The vocational certificate candidates should enroll in the university as special students in Vocational Industrial Education. Planned programs of preparation completed for certification requirements may be applied to degree requirements.

RECOMMENDED PREPARATION FOR VOCATIONAL CERTIFICATION

1. Foundations of Education*

			CREDITS
EDU	101	Introduction to Education	4.5
PSY	241	Human Growth and Development	4.5

*May be completed at a community college

2. Professional Vocational Education Preparation

			Certificate Area	
EVO	305	Foundations of Vocational Education	A	5

EVO	306	Course Planning in Vocational Education (Suggested second course in sequence)	B	5
EVO	308	Vocational Education Laboratory Management and Safety	C	5
EVO	504	Educational Media	B	5
EVO	515	Instructional Processes in Vocational and Technical Education (Suggested first course in sequence)	B	4

RANK II VOCATIONAL TEACHER CERTIFICATION EDUCATION

The Post Standard Certificate in Rank II (valid for 10 years) will be issued by the State Teacher Certification Office to an individual: (a) who has held a Standard Certificate, Rank III, for a minimum of five (5) years as who has been employed as a teacher in public or non-public schools in Florida for three of the five years, and (b) earned fifty-four (54) quarter hours of college credit in vocational teacher education and general education and/or general professional education and/or technical education courses.

The fifty-four (54) quarter hours of course work is planned so that (a) a minimum of eighteen (18) and a maximum of twenty-seven (27) quarter hours are earned in professional vocational education courses, and (b) a minimum of eighteen (18) and a maximum of twenty-seven (27) quarter hours are earned in general education or general professional education and/or technical education. Rank II candidates may select courses in planning their programs which are applicable to meeting baccalaureate degree requirements.

The vocational certificate candidates should enroll in the university as special students in vocational education. Candidates are urged to consult with a university adviser to formulate a program plan of preparation for approval by the State Teacher Certification Office prior to starting their program.

GRADUATE PROGRAMS

The Division of Vocational and Adult Education offers graduate work leading to the degree of Master of Science in Education in either Curriculum and Instruction or Administration and Supervision. The programs and areas of emphasis are as follows:

Program: CURRICULUM AND INSTRUCTION
Area of Emphasis
- Adult Education
- Industrial Arts Education
- Technical Education (Community College Teaching)
- Vocational Industrial Education

Program: ADMINISTRATION AND SUPERVISION
Area of Emphasis
- Adult Education
- Vocational Education

Admission to graduate programs in the Division requires adherence to the general standards as specified in the General Admission Requirements for Graduate Students in this catalog. In addition, the applicant must hold an undergraduate degree in the area in which graduate work will be completed or some appropriately related subject. Under certain conditions, applicants not meeting the minimum requirements and who have appropriate professional background and aspirations may be considered on an individual basis by the Division faculty.

Each graduate student, in consultation with his chosen adviser, plans a program of study. Each program has a core of professional competencies, an area of emphasis, and electives. The programs require a minimum of 45 quarter hours.

MASTER OF SCIENCE IN EDUCATION

SPECIALTY: Vocational Industrial Education

			CREDITS
1. Required Core			
EVO	506	Trends and Issues in Vocational Education	4
EVO	507	Curriculum Development in Vocational Education	4
EVO	616	Research in Vocational and Adult Education	4
EVO	696	Seminar in Vocational Education	4
EDU	506	Analysis of Teaching	4
2. Area of Professional Emphasis			13-17
Students under the direction of their adviser, may develop professional competencies in their area of emphasis via school-based field experiences, seminars, methods courses, workshops, or independent study.			
3. Technical Electives			8-12
Candidates will be encouraged to select courses that will increase their subject area technical competence.			

SPECIALTY: Technical Education

			CREDITS
1. Required Core			
EVO	506	Trends and Issues in Vocational Education	4
EVO	507	Curriculum Development in Vocational Education	4
EVO	616	Research in Vocational and Adult Education	4
EVO	696	Seminar in Vocational Education	4
EDU	506	Analysis of Teaching	4
2. Area of Professional Emphasis			10
EVO	509	Technical Education in American Society	4
EAD	509	Adult Teaching and Learning	4

EAD 509 Adult Teaching and Learning Students, under the direction of their adviser, may develop professional competencies in their area of emphasis via school-based field

experiences, seminars, methods courses, workshops or independent study.

3. Technical Electives 9

Candidates will be encouraged to select courses that will increase their subject area technical competence.

SPECIALTY: Industrial Arts Education

1. Required Core			CREDITS
EVO	506	Trends and Issues in Vocational Education	4
EVO	507	Curriculum Development in Vocational Education	4
EVO	616	Research in Vocational and Adult Education	4
EDU	506	Analysis of Teaching	4
EVO	696	Seminar in Vocational Education	4

2. Area of Professional Emphasis 9-13

EIA 605 Analysis of Industrial Arts Education 4

Students, under the direction of their adviser, may develop professional competencies in their area of emphasis via school-based field experiences, seminars, methods courses, workshops, or independent study.

3. Technical Electives 8-12

Students are encouraged to select courses that will increase their subject area technical competence.

SPECIALTY: Administration and Supervision of Vocational Education

1. Required Core			CREDITS
EVO	507	Curriculum Development in Vocational Education	4
EVO	517	Supervision and Coordination of Vocational Education Program	4
EVO	526	Community Relations and Resources for Vocational Education	4
EVO	606	Administration of Local Vocational Educational Programs	4
EVO	696	Seminar in Vocational Education	4
EDA	605	The Organization and Operation of Public School System	4
EDA	607	The Administration of a Secondary School	4
EDA	608	Supervision in Education	4
EDA	609	Curriculum Development	4

2. Area of Professional Emphasis

EVO 695 Supervised Field Experience 4

Course work in specialized field to make total of 1 and 2 equal to a minimum of 45 quarter hours.

SPECIALTY: Adult Education: Curriculum and Instruction
Adult Education: Administration and Supervision

The graduate program in Adult Education is designed for individuals who are serving or choose to serve as teachers, counselors, administrators, curriculum developers and/or researchers in adult and continuing education programs in business and industry, public schools, hospitals, governmental agencies, community colleges, universities, civic organizations, military service or other agencies. Graduate Programs of Studies are designed in relation to individuals' specific interests, needs, and career goals.

			CREDITS
1. Required Core			16-20
To be selected with adviser from the following			
EAD	507	Principles and Practices of Adult Education	4
EAD	508	Organization and Administration of Adult Education	4
EAD	509	Adult Teaching and Learning	4
EAD	519	Program Development in Vocational and Adult Education: Community Institutional Level	4
EAD	520	Program Development in Adult Education: Activity Instructional Level	4
EVO	616	Research in Vocational and Adult Education	4
2. Area of Professional Emphasis			12-16
Students under the direction of their adviser, may develop professional competencies in their area of emphasis via field experiences, seminars, methods courses, workshops or independent study.			
3. Electives			12-16
Candidates will be encouraged to select courses that will increase their subject area competence.			

VOCATIONAL EDUCATION

EVO 305 – FOUNDATIONS OF VOCATIONAL EDUCATION (5) **(F,S)**

Competency: A knowledge of the basic philosophy, principles, and practices of vocational education on the national, state, and local levels. Tasks include reviewing historical development of vocational education, identifying goals, organizational structure, and factors influencing vocational education, comparing program areas, and analyzing major issues and trends in vocational education.

EVO 306 – COURSE PLANNING (5) **(F,W,S)**

Competency: Basic knowledge and skill of planning and organizing bodies of knowledge for instructional purposes. Tasks include assessing current courses against criteria, conceptualizing and delineating a body of knowledge, designing a course, scheduling activities, lesson planning, and writing objectives.

EVO 308 – VOCATIONAL EDUCATION LABORATORY MANAGEMENT AND SAFETY (5) **(W)**

Competency: Knowledge and skill of planning, organizing and controlling laboratory environments and student organization for safe operation. Tasks include identifying program objectives, translating objectives in laboratory criteria, designing laboratory layouts, maintenance and safety programs, developing organizational charts, schedules, and records, and selecting and ordering laboratory equipment and supplies.

EVO 406 – SPECIAL TEACHING LABORATORY (5) **(F,W,)**

Competency: Knowledge of the educational institution and utilization of teaching skill via mini-teaching experiences within areas of specialization in selected institutions. Tasks include identifying roles of school personnel and policies, assisting the teacher in planning, teaching, and evaluation. Participation in a Problems Seminar is required. Prerequisites: EDU 311 and EDU 312.

EVO 407 – SUPERVISED OCCUPATIONAL EXPERIENCES (5-15) **(Arranged)**

Competency: Development of occupational skill via field work-experience in industry, business, or government agency in an occupation in which the student is preparing to teach. Students are placed and supervised by university and the employer. Credit may be earned at the rate of one quarter hour for each 40 clock hours of work.

EVO 408 – OCCUPATIONAL HEALTH AND SAFETY (OSHA) (5) **(S)**

Competency: Knowledge of the history and implications of the Occupational Safety and Health Act of 1970. Tasks include identifying objectives, interpretations, standards and implications of the Act. Tasks also include translating the Act into practice in a specialty area. For vocational and technical teachers, industrial employees, and management personnel who are responsible for providing instruction covering the Occupational Safety and Health Act of 1970.

EVO 425 – STUDENT TEACHING (15) **(W,S)**

Competency: Utilization of instructional knowledges, attitudes, and skills in a variety of situations in secondary schools or community colleges, or other appropriate vocational educational settings. Students are supervised by a directing teacher and university faculty.

Participation in a Problems Seminar is required. Prerequisite: EVO 406.

EVO 501 – EMERGING EMPHASES IN CAREER EDUCATION (4) (F)
Competency: A knowledge of current trends and issues in referents for developing and integrating career education into current elementary and secondary educational programs. Tasks include reviewing, analyzing, and comparing the needs, forces, directions, and conceptual structure of K-14 career education programs.

EVO 502 – TEACHING CAREER RELATED ACTIVITIES (5) (W,SS)
Competency: Integration and articulation of career concepts and activities with regular curriculum. Tasks include identifying, planning, and developing activities representative of career concepts. Develops knowledge and skill in basic tool and material manipulation for various occupations. Includes classroom safety.

EVO 503 – ORIENTATION TO CAREERS (5) (S)
Competency: Knowledge of the social, psychological and economic significance of work, career and job classification systems. Tasks include identifying educational and occupational requirements, population mobility, job analysis, manpower supply and demand, community surveys and resources, and procedures in presenting career information.

EVO 504 – EDUCATIONAL MEDIA (5) (F,W,S,SS)
Competency: Translation of knowledge into a media form to communicate or demonstrate a concept. Tasks include conceptualizing, developing, producing, and presenting slide series, transparencies, films, audio tapes and three dimensional instructional aids to communicate and demonstrate concepts. Tasks also include operating visual, audio and audiovisual equipment, including VTR, and the management of media equipment and supplies. Emphasizes laboratory experiences.

EVO 505 – CREDIT BY EXAMINATION (5-45) (Arranged)
Competency: Demonstration of occupational proficiency. A maximum of 45 quarter hours credit will be awarded for documentation of competency in an occupation in which the student is preparing to teach. Credit will be awarded only through written and performance examinations, evaluation of approved licenses, program completion certificates, and/or other supporting information. Students must submit evidence for review at least one quarter prior to graduation.

EVO 506 – TRENDS AND ISSUES IN VOCATIONAL EDUCATION (4) (F,S,)
Competency: A knowledge of the basic philosophical and curricular vocational education at the international, national, state, and local

levels. Tasks include researching, analyzing, and reporting on historical and current trends and issues in vocational education and analyzing and comparing goals, program areas, principles, practices, organizational structures and factors influencing vocational education.

EVO 507 – CURRICULUM DEVELOPMENT IN VOCATIONAL EDUCATION (4) **(W)**

Competency: Development of curriculum in an area of specialization. Tasks include assessing current curricula, defining purposes and goals, conceptualizing and delineating a body of knowledge, designing courses, conceptualizing and planning functions of teaching and learning, and developing a curriculum guide.

EVO 509 – TECHNICAL EDUCATION IN AMERICAN SOCIETY (4) **(W)**

Competency: A knowledge of the basic role, and current status of technical education in an industrial democracy. Tasks include reviewing the scientific bases, administrative and organizational structures, student characteristics, and staff requirements in technical education.

EVO 515 – INSTRUCTIONAL PROCESSES IN VOCATIONAL EDUCATION (4) **(F)**

Competency: The planning, teaching, and evaluation of classroom and laboratory learning experiences. Tasks include identifying a body of knowledge, writing objectives, planning lessons, introducing and presenting lessons, managing organizations, activities and facilities, and assessing student performance and teaching effectiveness. Permission of program adviser required.

EVO 516 – COOPERATIVE VOCATIONAL EDUCATION PROGRAMS (4) **(F)**

Competency: Knowledge of the basic philosophy, principles, and practices of the cooperative method of education in vocational and technical education. Tasks include identifying, analyzing, and reporting the objectives, organizational structure, coordination methods, student selection practices, labor laws, related instruction, and program evaluation.

EVO 517 – SUPERVISION AND COORDINATION OF VOCATIONAL EDUCATION PROGRAMS (4) **(F)**

Competency: The supervision of personnel and the coordination of work to achieve goals. Tasks include simulation exercises in identifying responsibilities, organizing, and evaluating personnel, planning and operating programs. Provides practice in identifying and reducing personnel and communications problems and in developing leadership skills.

EVO 519 – LABORATORY ACTIVITIES FOR TEACHERS OF THE HANDICAPPED (4) **(F)**

Competency: The use of projects, tools, materials, and equipment to facilitate training the occupationally and physically handicapped, and mentally retarded. Tasks include identifying and demonstrating the safe use of tools, materials and equipment, and designing projects and activities to meet objectives.

EVO 526 – COMMUNITY RELATIONS AND RESOURCES FOR VOCATIONAL EDUCATION (4) **(S)**

Competency: Knowledge of community resources and public relations practices to develop and implement vocational programs. Tasks include identifying community resources, personnel for advisory and planning groups, writing communications, conducting meetings, and examining procedures for identifying, developing, implementing, evaluating vocational education.

EVO 527 – EVALUATION IN VOCATIONAL EDUCATION (4) **(S)**

Competency: Use of tests and measurements to determine teaching effectiveness and the validity of objectives. Tasks include, identifying objectives, constructing written and performance tests, conducting tests in classrooms and laboratories, and evaluating teaching performance and objectives.

EVO 595 – INDIVIDUAL STUDY (1-5) **(Arranged)**

Competency: Identifying, researching, and reporting on a special problem of interest to the student. Subject to approval of program adviser.

EVO 597 – WORKSHOP IN VOCATIONAL EDUCATION (1-15) **(Arranged)**

Competency: Selected competencies related to instructional, curricular and/or administrative skills, practices, and procedures of special interest to students in vocational and technical education.

EVO 606 – ADMINSTRATION OF VOCATIONAL EDUCATION PROGRAMS (4) **(S)**

Competency: Knowledge of the principles, practices, functions, and roles of administration in the operation of vocational education programs. Tasks include analyzing and reporting on organization, authority, responsibility, program operations, decision making processes, policy formulation, fiscal control, state reports, staff utilization, liaison with cooperating institutions, evaluation, public relations and communications systems.

EVO 616 – RESEARCH IN VOCATIONAL AND ADULT EDUCATION (4) **(S)**

Competency: The solution of vocational and adult education problems through research and evaluation. Tasks include identifying and defining problems, collecting, analyzing and synthesizing

research related to these problems, evaluating alternative solutions, and planning procedures to alleviate the problem.

EVO 695 – SUPERVISED FIELD EXPERIENCE (4-8) **(Arranged)**
Competency: Application and refinement of proficiencies through a school-based field experience to improve school curriculum and increase teaching-learning effectiveness in the classroom and laboratory, or to develop initial competencies in administration and supervision to promote effective and efficient education. Placement is subject to approval of program adviser.

EVO 696 – SEMINAR IN VOCATIONAL EDUCATION (2-4) **(W)**
Competency: The application of knowledges and skills to solve special instructional, curricular and/or administrative and supervisory problems and issues in vocational education.

INDUSTRIAL ARTS EDUCATION

EIA 403 – PRACTICAL ARTS FOR ELEMENTARY TEACHERS (5) **(W,SS)**
Competency: Knowledge and skills in the principles and practices of the safe use of materials, tools, processes and projects for teaching craft related activities in the elementary school. Tasks include development of skills in: cooking, sewing, weaving, woodworking, metalworking, printing, ceramics, leatherwork, plastics, and cardboard construction. Experiences and projects are designed to support and augment regular elementary school classroom learning.

EIA 405 – INSTRUCTION IN INDUSTRIAL ARTS (5) **(F,W)**
Competency: Applying educational principles, practices, and techniques to the teaching of industrial arts. Tasks include planning lessons, presenting information, demonstrating processes and equipment, leading discussions, managing safe laboratory activities, evaluating student achievement and teaching effectiveness. Prerequisite: EDU 311.

EIA 528 – EQUIPMENT AND FACILITIES PLANNING (4) **(S)**
Competency: Utilization of research, design, engineering knowledge and skills to plan laboratory facilities and equipment. Tasks include reviewing objectives, translating programs into laboratory areas, writing educational specifications, planning space utilization, environmental conditions, equipment placement, and writing specifications for purchasing equipment.

EIA 595 – INDIVIDUAL STUDY (1-5) **(Arranged)**
Competency: Identifying, researching, and reporting on a special problem in industrial arts of interest to the student. Subject to approval of program adviser.

EIA 605 – ANALYSIS OF INDUSTRIAL ARTS EDUCATION (4) **(W)**

Competency: Knowledge of industrial arts at the national, state, and local levels. Tasks include reviewing history of industrial arts, assessing goals and programs, exploring trends and issues, examining professional organizations, synthesizing industrial arts.

VOCATIONAL HOME ECONOMICS EDUCATION

HEE 305 – HOME ECONOMICS EDUCATIONAL PLANNING (5) **(F)**

Competency: Development and adaptation of curriculum and strategies for the presentation of vocational home economics content in a variety of educational settings. Tasks include educational planning for public schools and private agencies with regular and unique client-student groups such as elementary age children, the physically handicapped, the culturally disadvantaged, and/or the adult learner.

HEE 405 – INSTRUCTION IN VOCATIONAL HOME ECONOMICS (5) **(W)**

Competency: Applying educational principles, practices and techniques to teaching home economics. Tasks include planning lessons, presenting information, demonstrating processes and equipment, leading discussions, managing safe laboratory activities, evaluating student achievement and teaching effectiveness. Prerequisites: EDU 311 and HEE 305.

HEE 406 – SPECIAL TEACHING LABORATORY–HOME ECONOMICS (5) **(F,W,S)**

Competency: Knowledge of the educational institution and utilization of teaching skill via mini-teaching experiences within areas of home economics in selected institutions. Tasks include identifying roles of school personnel and policies, assisting the teacher in planning, teaching, and evaluation. Participation in a Problems Seminar is required. Students are supervised by a directing teacher and university faculty. Prerequisites: EDU 311, EDU 312, HEE 305, HEE 405.

HEE 505 – TRENDS IN VOCATIONAL HOME ECONOMICS EDUCATION (4) **(W,SS)**

Competency: Knowledge of current social, economic and educational issues affecting the field of vocational home economics. Tasks include identifying current characteristics and requirements for both consumer/homemaking and wage-earning home economics programs, examining the wage-earning possibilities related to the field, and assessing the factors involved in the organization and administration

of these programs. Includes field observation in training centers and in industry. Subject to approval of program adviser.

HEE 606 – TEACHING HOME ECONOMICS IN THE SECONDARY SCHOOL (4)
Competency: Knowledge of current methods, programs, and materials to teach and evaluate home economics. Tasks include analyzing programs in the middle, junior and senior high school, and developing relevant teaching skills and evaluation strategies. Prerequisite: EVO 507 or permission of instructor.

HEE 607 – SUPERVISION OF STUDENT TEACHERS (4)
Competency: Skill in teaching, observing and evaluating student teachers in vocational home economics.

HEE 696 – SEMINAR IN HOME ECONOMICS EDUCATION (4)
Competency: Application of selected instructional, curricular and/or administrative principles and practices to the solution of problems of special interest to vocational home economics educators. Subject to approval of program adviser.

INSERVICE VOCATIONAL HOME ECONOMICS EDUCATION

The following group of courses is designed primarily to provide inservice education for professionals in the field of vocational home economics.

Competency: Skill in planning, presenting, and evaluating learning experiences that are current in content and educational methods. Subject to approval of program adviser.

HEE 506 – TEACHING FOOD AND NUTRITION (5) **(F)**

HEE 507 – TEACHING CHILD DEVELOPMENT (5) **(Arranged)**

HEE 508 – TEACHING CLOTHING AND TEXTILES (5) **(Arranged)**

HEE 509 – TEACHING FAMILY LIFE EDUCATION (5) **(Arranged)**

HEE 515 – TEACHING HOUSING AND HOME FURNISHINGS (5) **(Arranged)**

HEE 516 – TEACHING FAMILY ECONOMICS (5) **(Arranged)**

WORKSHOPS IN VOCATIONAL HOME ECONOMICS EDUCATION

The following workshops are designed for preservice and inservice training of teachers of wage-earning vocational home economics programs.

Competency: Skill in developing, organizing, teaching, evaluating, and administering occupational programs related to an area of home economics education. Subject to approval of program adviser.

HEE 596 – CHILD CARE, GUIDANCE AND SERVICES WORKSHOP (5) **(Arranged)**

HEE 597 – CLOTHING MANAGEMENT, PRODUCTION AND SERVICE WORKSHOP (5) **(Arranged)**

HEE 598 – FOOD MANAGEMENT, PRODUCTION AND SERVICES WORKSHOP (5) **(Arranged)**

HEE 599 – HOME FURNISHINGS, EQUIPMENT AND SERVICES WORKSHOP (5) **(Arranged)**

ADULT EDUCATION

EAD 507 – PRINCIPLES AND PRACTICES OF ADULT EDUCATION (4) **(F,S)**

Foundations course in Adult Education. Competencies are developed in relation to: developing logical and empirical rationales for adult education; developing a personal philosophy of adult education, identifying and contrasting agencies, programs, and curricula, evaluating extent and nature of adults' educational pursuits, analyzing historical and cultural factors affecting adult education; differentiating adults as learners from youths as learners; planning and appraising programs for adults.

EAD 508 – ORGANIZATION AND ADMINISTRATION OF ADULT EDUCATION (4) **(W)**

Competencies are developed in relation to: identifying and analyzing federal, state and local rules and regulations affecting adult education; identifying, selecting and training staff; selecting organization patterns appropriate for given programs; executing managerial and supervisory responsibilities; developing inter and intra-program communication; arranging for community involvement, organizing and administering supportive services.

EAD 509 – ADULT TEACHING AND LEARNING (4) **(W,SS)**

Competencies are developed in relation to: differentiating various theories of learning in relation to their implications for teaching adults; contrasting adragogical models of education with pedagogical models; analyzing and contrasting the psychological, physiological and sociological characteristics of adults as opposed to youth; evaluating the implications of such distinctions in relation to establishing an organizational climate and structure appropriate for adult learners; assessing adult needs and interest; designing and

implementing learning experiences; serving as a learning facilitator, and evaluating learning and learning designs.

EAD 510 – DESIGNING EDUCATIONAL PROGRAMS FOR DISADVANTAGED ADULTS (4) **(S)**

Competencies are developed in relation to: Identifying, defining and distinguishing various forms of disadvantagement; analyzing antecedents of these problems and forces which sustain, compound and/or inhibit their prevention, alleviation or solution; critiqueing past and present responses to these problems; developing appropriate teacher/administrator training programs, curricula and materials; recruitment strategies, evaluation designs, developing inter-agency and coordinated responses.

EAD 519 – PROGRAM DEVELOPMENT IN VOCATIONAL AND ADULT EDUCATION: COMMUNITY/ INSTITUTIONAL LEVEL (4) **(F,S)**

Competencies are developed in relation to: identifying and analyzing variables central to program and community development; identifying, analyzing and executing various principles and roles requisite for effective group task and group maintenance functions, developing consensus group philosophy, designing, conducting and interpreting studies of community needs and wants; translating needs and wants into measurable community and institutional level objectives; identifying, selecting, mobilizing and integrating resources (physical, financial, and human), planning, conducting and interpreting formative and summative evaluation studies.

EAD 520 – PROGRAM DEVELOPMENT IN ADULT EDUCATION: ACTIVITY/INSTRUCTIONAL LEVEL (4) **(S)**

Competencies are developed in relation to: identifying and analyzing various models for instructional design, identifying, analyzing and evaluating various input and process variables related to such models, specifying and developing designs unique for adult learners; diagnosing learning needs/wants; writing and evaluating instructional objectives; selecting methods, techniques, and devices; executing and evaluating learning experiences.

EAD 525 – WORKSHOP IN ADULT EDUCATION (3-15) **(Arranged)**

Short-term intensive development of selected operational competencies related to instructional, curricular and/or administrative skills, practices and procedures of special interest to students in adult education.

EAD 595 – INDIVIDUAL STUDY IN ADULT EDUCATION (1-5) **(F,W,S,SS)**

Specialized intensive study in areas of interest to the student. Subject to approval of program adviser.

EAD 596 – SUPERVISED FIELD EXPERIENCES IN ADULT EDUCATION (1-15) **(F,W,S,SS)**

Internship placements in various on-going adult education programs according to students' needs and interests. On-site supervisory visits are made by program advisers. Joint conferences and seminars involving the student, the program adviser, and an appropriate representative of the cooperating agency are also conducted intermittently.

EAD 697 – SEMINAR IN ADULT EDUCATION (2-4) **(S)**

Provides intensive study of instructional, curricular, and/or administrative principles and practices for the solution of problems of special interest to students in adult education.

School of Health and Social Services

Dean Vandon E. White

The School of Health and Social Services emphasizes training that is geared to providing for the total physical, emotional and social needs of each citizen. These needs must be met as far as possible in the sense of prevention rather than one of crisis. Thus, the School considers both health and social services inseparable—truly allied health fields.

Educational programs in the School of Health and Social Services are structured to provide opportunities for individuals to be trained in an interdisciplinary manner in much the same fashion that they will be expected to work together after graduation. Students enrolled in these programs will pursue a combination of broad general education courses, core courses common to all helping professions, and specialized professional courses along with clinical training and field experience.

Education for health and social service fields is a challenging process and continues throughout life. Thus preparation for these professional careers require intellectual competence and curiosity to learn new concepts in a fast-changing world.

The student and his adviser work together to establish his program of study. The program of study is designed to meet the professional objectives and individual needs of the student.

Each of these programs of study draws to some extent on faculty and course offerings in the College of Arts and Sciences and in the other Schools. The Division of University Services and Continuing Education is also

involved in offering learning experiences to individuals who are already practitioners and who would like to keep current in their professions.

Some common elements run through all the programs in the School of Health and Social Services. These elements not only suggest the generalist-type skills which students will need, but they reflect the University's optimistic belief that by working together we are capable of weaving a new fabric of hope and a new sense of well-being for our citizens here and abroad. A review of these common elements follows:

. . . A team, task force, a coalition of those interested in health care delivery careers can best provide the knowhow needed to develop comprehensive plans and programs for lessening urban blight, poverty, and lack of health and social services. Such teams will be able to use a systems approach to problem solving.

. . . Cities must be viewed much like any living organism capable of growth and change and capable of being hospitable to a variety of different cultures. Health and social services, therefore, in this sort of setting become but two of a number of important "unifiers" in the geographic sectors comprising a city. These services in such geographical sectors, by working jointly with educational, cultural, recreational and governmental entities, must be able to bring to all citizens a sense of community.

The School of Health and Social Services offers the following eight programs:

Physical Therapy — Prepares practitioners to work with persons who are disabled by illness, accident, or were born with a disability. Therapists plan and implement initial and subsequent treatment programs on the basis of test findings, and upon the referral of the licensed physician.

Occupational Therapy — Prepares practitioners for medical care and rehabilitation of persons with physical and mental illnesses. Occupational therapy is oriented toward helping the individual to remain healthy. The therapist employs purposeful activities in a restorative program for the sick and disabled.

Medical Technology — Prepares laboratory professionals to conduct the many laboratory tests utilized to aid physicians and others in their diagnosis and treatment of patients.

Nursing — Prepares practitioners with basic scientific knowledge in biological and behavioral sciences and technological innovations to understand and care for people and their needs in periods of stress.

Dietetics and Nutrition — Prepares practitioners to protect the health of the nation by developing expertise in the composition of foods, their biolocical and physiological functions and their preparation for utilization.

Social Work — Prepares practitioners to help solve individual, family, group and community problems by providing an understanding of society's major social issues. The emphasis of the program will be the development of skills needed to initiate and implement social policy.

Criminal Justice — Prepares practitioners with a scientific and scholarly blend of social, cultural, behavioral, political and legal learning experiences as they relate to our justice system.

Health Science — Prepares persons who have completed a lower division or equivalent program which results in licensure and/or certification to complete

their baccalaureate degree. Special emphasis may be given to management, education, health or liberal arts courses.

The School also participates with the School of Education and the School of Technology in an interdisciplinary program of Home Economics Education.

CRIMINAL JUSTICE MAJORS

LOWER DIVISION PREPARATION:

Required Courses: None

Recommended Courses: (a) All students intending to enroll in any of the several tracks of the Criminal Justice Major are urged to complete an Associate in Arts degree, Associate in Science degree or equivalent academic program in criminal justice, police science, criminalistics, criminology, correction or a similarly related field prior to enrollment at Florida International. Such students will receive complete recognition of their degree and credits. No deficiency requirements will be imposed by the University, other than those imposed by the State University System of Florida. (b) Students are encouraged to take coursework at the lower division toward completion of the requirements of a minor (section 3 below, all Criminal Justice Major tracks except Criminalistics-Chemistry). (c) Criminalistics-Chemistry Track students are urged to take coursework in science and mathematics as follows:

General Chemistry or General Chemistry with Qualitative Analysis	10-12 semester hours
Organic Chemistry	8 semester hours
General Physics with Calculus	12 semester hours
Mathematics (including Calculus I & II)	14 semester hours

Failure of the Criminalistic-Chemistry Track student to complete these courses in the lower division may necessitate the utilization of Florida International University electives and/or lengthening the degree program.

UPPER LEVEL PROGRAM:

Four tracks or areas of concentration are provided for the Criminal Justice Major:

Police Administration
Correctional Administration
Criminal Justice Administration
Criminalistics-Chemistry (Degree granted by Chemistry Department)

THE POLICE ADMINISTRATION TRACK

1. Criminal Justice Core (Required)			CREDITS
CRJ	301	— The Nature and Causes of Crime	5
CRJ	302	— The Roles of Law Enforcement	5
CRJ	303	— Prosecutorial and Judicial Policy Making	5

CRJ	401	— Correctional Philosophy, Theory and Practice	5
CRJ	402	— Methods of Criminal Justice Research	5
CRJ	403	— Methods of Institutional Change	5
			30

2. Police Administration Concentration

CRJ	311	— Institutional Organization and Administration	5
CRJ	312	— Personnel Selection, Development and Control	5
CRJ	313	— Planning, Budgeting and Financial Administration	5
			15

3. Minor — Consists of 20 credits in one of the following fields of study:

Anthropology	Psychology
Economics	Sociology
Political Science	Social Work

20

4. Electives — 25 credits with emphasis on the following suggested fields of study:

Criminal Justice — especially:

CRJ	430	— Criminal Justice and the Constitution	5
CRJ	440	— Field Work & Special Projects	1-15

Business and Management
History — especially those courses related to the development of social problems
Behavioral Sciences 25

TOTAL 90

THE CORRECTIONS ADMINISTRATION TRACK

1. Criminal Justice Core (Required)

CRJ	301	— The Nature and Causes of Crime	5
CRJ	302	— The Roles of Law Enforcement	5
CRJ	303	— Prosecutional and Judicial Policy Making	5
CRJ	401	— Correctional Philosophy, Theory and Practice	5
CRJ	402	— Methods of Criminal Justice Research	5
CRJ	403	— Methods of Institutional Change	5
			30

2. Corrections Concentration

CRJ	311	— Institutional Organization and Administration	5
CRJ	312	— Personnel Selection, Development and Control	5
CRJ	313	— Planning, Budgeting and Financial Administration	5
CRJ	321	— Delinquency Prevention	5
CRJ	421	— Probation and Parole	5
CRJ	422	— Administration or Correctional Institutions	5
			30

3. **Minor** – Consists of 20 credits in SOCIAL WORK 20

4. **Electives** – 10 credits from the following suggested fields of study:
   Criminal Justice – especially CRJ 430
   Criminal Justice and the Constitution
   Business and Management – especially Business Law
   History – especially those courses related to the development of social problems
   Behavioral Sciences 10

TOTAL 90

THE CRIMINAL JUSTICE ADMINISTRATION TRACK

1. **Criminal Justice Core (Required)**

CRJ	301	– The Nature and Causes of Crime	5
CRJ	302	– The Roles of Law Enforcement	5
CRJ	303	– Prosecutorial and Judicial Policy Making	5
CRJ	401	– Correctional Philosophy, Theory and Practice	5
CRJ	402	– Methods of Criminal Justice Research	5
CRJ	403	– Methods of Institutional Change	5
			30

2. **Area of Interest** – A 20 credit requirement developed by the student the academic advisor 20

3. **MINOR** – Consists of 20 credits in one of the following fields of study:

Anthropology	Psychology
Economics	Sociology
Political Science	Social Work

20

4. **Electives** 20

TOTAL 90

THE CRIMINALISTICS – CHEMISTRY TRACK

1. **Criminalistics – Chemistry Core (Required)**

CHE	321	– Thermodynamics	5
CHE	322	– Equilibrium and Properties of Solutions	5
CHE	325	– Physical Chemistry Laboratory	5
CHE	306	– Instrumentation and Design	5
CHE	495	– Senior Seminar	5
			25

2. **Ten Credits of Upper Division Chemistry Coursework** at least five of which are a laboratory course, may be selected from the following recommended courses:
   CHE 335 – Organic Qualitative Analysis
   CHE 323 – Quantum Mechanics and Quantum Chemistry

CHE 405 – Advanced Spectroscopy and Molecular Structure
CHE 301/302 – Organic Chemistry
CHE 506 – Radio-Chemistry and Nuclear Chemistry

10

3. **Ten Credits of Upper Division Biology Coursework** 10
4. **Internship** – A fifteen credit internship in the laboratory of a participating criminal justice agency. 15
5. **Criminal Justice Coursework** 15
6. **Electives** – Coursework in the behavior and political sciences is recommended 15

TOTAL 90

CRIMINAL JUSTICE

CRJ 300 – AN OVERVIEW OF CRIMINAL JUSTICE (5) (F,W,S,SS)
An overview of the agencies and processes involved in the administration of criminal justice. Inter-relationships and functions of the legislature, police, prosecutor, defender, courts and corrections are examined. (Recommended for Non-Majors)

CORE COURSES

CRJ 301 – THE NATURE AND CAUSES OF CRIME (5) (F)
Social, cultural, behavioral, political and economic causitive factors in the development of crime. Psychological and sociological considerations involved in criminal behavior. The role of the legislature as policy maker in criminalizing conduct and the limits of the criminal sanction.

CRJ 302 – THE ROLES OF LAW ENFORCEMENT (5) (W)
An analytical examination of roles of the police in the United States and other countries. The policeman as maintainer of order, protector of individual rights, enforcer, provider of non-criminal service, and social worker. Role conflict and the development of the police as a subculture. Police-Community interaction.

CRJ 303 – PROSECUTION AND JUDICIAL POLICY MAKING (5) (S)
Structure and functions of the prosecutorial and judicial systems in the United States and other countries. Role of the prosecutor, judge and defender in discretionary disposition of cases without trial. Inter-relationships between the prosecutorial and judicial system and

other criminal justice agencies. The policy-making role of the appellate judiciary in criminal law and procedure.

CRJ 401 – CORRECTIONAL PHILOSOPHY, THEORY AND PRACTICE (5) **(F)**

Appraisal of correctional methods utilized in the United States and other countries. Prisons, probation, parole work-release programs, half-way houses, community-based correction programs and other techniques are analyzed.

CRJ 402 – METHODS OF CRIMINAL JUSTICE RESEARCH (5) **(F)**

Elements of scientific perspective, interaction of research theory and practice. Research design, data collection, analytic and statistical techniques, use of data processing resources and preparation of research reports.

CRJ 403 – METHODS OF INSTITUTIONAL CHANGE (5) **(S)**

Analysis of evolutionary and revolutionary changes in political institutions and agencies. Means, methods and techniques for initiating and implementing meaningful change within the criminal justice system.

COURSES FOR ADMINISTRATIVE CONCENTRATION

CRJ 311 – INSTITUTIONAL ORGANIZATION AND ADMINISTRATION (5) **(F)**

Analysis of the internal organizational structure and of executive roles and functions in criminal justice agencies. Examines administrative and managerial concepts underlying decision making, policy formulation, operational strategies, and coordination and control procedures. Cases and outside research reports are used for specific analysis.

CRJ 312 – PERSONNEL SELECTION, DEVELOPMENT AND CONTROL (5) **(W)**

Analysis of criminal justice manpower input problems – recruitment, selection, placement, training, development and control at all levels. Emphasis is placed upon policy issues, research findings, and advanced techniques.

CRJ 313 – PLANNING, BUDGETING AND FINANCIAL ADMINISTRATION (5) **(S)**

Planning, budgeting and financial administration methods as applicable to criminal justice agencies are examined. Emphasis is placed on these techniques as they relate to the formulation of policies, objectives of procedures, the determination of organizational priorities, and as techniques to initiate organizational change. Case studies are developed, presented and analyzed.

COURSES FOR CORRECTIONAL CONCENTRATION

CRJ 321 — DELINQUENCY PREVENTION (5) (W)
Problems of juvenile delinquency. Organization and administration of delinquency prevention programs: Police programs, juvenile courts, institutional treatment, and the use of community resources. Case analysis.

CRJ 421 — PROBATION AND PAROLE (5) (F)
An examination of the treatment of convicted law violators by the correctional field services before and after prison.

CRJ 422 — ADMINISTRATION OF CORRECTIONAL INSTITUTIONS (5) (F)
Theories and techniques of administering correctional institutions: treatment, security and custody. Social structure of the prison community and inmate social systems. Case studies.

GENERALIZED AND ELECTIVE COURSES

CRJ 395 — CONTEMPORARY ISSUES IN CRIMINAL JUSTICE (Variable) (F,W,S,SS)
Forum for unusual or special course offerings focusing on contemporary issues in criminal justice.

CRJ 405 — ORGANIZED CRIME (5) (W)
An in-depth examination of local, national and international organized crime and its impact upon society.

CRJ 430 — CRIMINAL JUSTICE AND THE CONSTITUTION (5) (S)
A study of the First, Fourth, Fifth, Sixth, Eighth and Fourteenth Amendments to the Federal Constitution as related to the administration of criminal justice.

CRJ 440 — FIELD WORK AND SPECIAL PROJECTS (1 to 15) (F,W,S,SS)
Individualized constructive work and/or observational experience in criminal justice agencies, community, organizations or special environments. Advanced counseling of student and advisor's approval required before enrollment.

CRJ 495 — DIRECTED READINGS IN CRIMINAL JUSTICE (Variable) (F,W,S,SS)
Extensive reading and analysis of appropriate literature under faculty supervisor.

CRJ 496 — INDEPENDENT RESEARCH (Variable) (F,W,S,SS)
Individually selected program of supervised group of personal study

related to a specific criminal justice issue. Normally the product will be a research paper suitable for publication. Prerequisite: CRJ 402.

CRJ 500 – DIRECTED RESEARCH (Variable) **(F,W,S,SS)**

DIETETICS AND NUTRITION MAJORS

The Department of Dietetics and Nutrition offers a major in clinical and community dietetics and courses in nutrition for allied disciplines, or for students wishing to understand nutrition for their own benefit.

The clinical program is a part of the Greater Miami Coordinated Undergraduate Dietetic Program, a joint program with Barry College, which meets requirements of The American Dietetic Association, both for academic preparation for membership and internship experience. The student who enters the clinical phase of the program must make formal application after all prerequisites are completed. The clinical courses are sequential and take two academic years to complete. Supervised clinical experiences are in a variety of hospitals and other health agencies. The graduate of this program is eligible to take the registration examination to become a Registered Dietitian. The Florida International University student who enters this program must register at Florida International, and, when the program is complete, will be granted a Bachelor of Science degree from the University.

Registered dietitians who have completed the clinical program are prepared for positions in hospitals and health agencies in therapeutics or community health. For positions in general dietetics or school lunch, the student will need to elect courses in quantity foods and personnel management.

LOWER DIVISION PREPARATION:

The student requesting admission to the program should have completed a large proportion of the following:

Algebra at intermediate level
Chemistry, 2 courses general with lab
1 course organic with lab*
Human Biology, 1 course
Psychology, 1 course (Educational Psychology recommended)
Cultural Anthropology and Sociology, 1 year
Economics, 1/2 year

* Organic Chemistry requirements must be completed before DIN 300 is taken.

UPPER DIVISION PROGRAM:

JUNIOR YEAR

Fall Term			CREDITS
DIN	300	Orientation to Clinical Dietetics	3*

DIN	301	Nutrition and Culture	5
DIN	310	Meal Management and Service	5
BSC	374	Human Physiology	5
Winter Term			
DIN	320	Management of Dietary Systems	9**
BSC	301	Biochemistry and Lab	7
Spring Term			
DIN	330	Nutrition in Health and Disease	9**
DIN	410	Food Science	5

SENIOR YEAR

Fall Term			
DIN	401	Nutrition (II)	5
DIN	440	Clinical and Community Nutrition I	6**
BSC	310	Microbiology and Lab	7
Winter Term			
DIN	441	Clinical and Community Nutrition II	9**
		Statistics	5
Spring Term			
DIN	451	Advanced Clinical Practicum in Dietetics	3-9**
DIN	490	Seminar in Dietetics & Nutrition	3-9**

* Organic Chemistry requirements must be completed before DIN 300 is taken.

** Indicates clinical component. Clinical experiences are supervised by course instructors. Clinical stations are in appropriate hospitals, health agencies, and school feeding programs. Courses so marked are open **only** to the students on the coordinated program.

MASTER'S PROGRAM*

The Department of Dietetics and Nutrition offers a graduate program leading to the Master of Science degree in Dietetics, with emphasis in closely allied areas such as community health, social sciences, personnel management, language, or the physical sciences. Dietitians enrolled in this program may prepare themselves for positions of responsibility in health care institutions, community health agencies, or private practice. The program will allow for concentration in research or field application.

The program is designed to meet the needs of the professional practitioner of dietetics and is keyed to the study of rapidly growing urban society of south Florida with its multi-cultural groups. The Master's candidate can choose an emphasis such as: Community Dietetics and Public Health, General Dietetics, Dietetic Management and Consultation or Dietetic Education.

Admission to the program will be determined by evaluation of undergraduate preparation. Under most circumstances, this will include, at least, the minimum requirements leading to membership in The American Dietetic Association. Minimum requirements, under current Board of Regents policy, will be met.

This will include a combined score of 1000 on a Verbal and Quantitative Aptitude Tests of the Graduate Record Examination **or** at least a B average in all upper level division work **or** a completion of the undergraduate Dietetic program at Florida International University, with at least all grades of CR (credit). Application for admission to the program will be found in the discussion of University procedure for admission to graduate study.

Students who are candidates for the Master of Science degree in Dietetics, must complete a minimum of 45 quarter hours of graduate study in the **thesis option** and two-thirds of this work must be at Florida International University and all of the work must be of recent enough date to be relevant to the field of dietetics today. Candidates for the **field study option** must complete at least 50 hours at Florida International University.

Students may apply for credit for not more than ten hours of field study for professional experience or a recent post-baccalaureate internship. All candidates must receive a grade of CR (credit), or better, in all work presented for the degree. All degree candidates will complete the following courses:

1. DIN	691	Research Methods in Dietetics	3 hrs
2. DIN	692	Laboratory Research Methods in Nutrition & Food Science	3 hrs
		OR	
DIN	693	Field Research methods in Dietetics	3 hrs
3. DIN	695	Supervised Field Study in Dietetics	15 hrs
		OR	
DIN	698	Thesis in Dietetics	10 hrs

The remainder of the student program will be planned to be consistent with his career goals and in consultation with his assigned faculty adviser. The proposed program of study will be filed in the office of the Chairman of the Department of Dietetics by the end of the student's first term of full-time graduate study.

* The program has been submitted to the Board of Regents for approval.

MASTER OF SCIENCE IN DIETETICS

SUBSPECIALTY: Community Dietetics and Public Health

Core Requirements

DIN	691	Research Methods in Dietetics	3 hrs
DIN	692	Field Research Methods in Dietetics	3 hrs
DIN	695	Supervised Field Study in Dietetics	15 hrs
			21 hrs

Other Courses

DIN	501	Ethnic Influences on Nutrition and Food Habits	5 hrs
		OR	
DIN	505	Dietetics and Communications	5 hrs
DIN	601	Nutrition During The Life Cycle	5 hrs
DIN	640	Advanced Community Nutrition	5 hrs

DIN	503	Nutrition Education in School and Community	5 hrs
DIN	530	Diet in Disease Prevention and Treatment	5 hrs
			25 hrs

Approved electives to include understanding of statistics, community organization, health care systems, and urban social forces. 4 hrs

4 hrs

TOTAL 50 hrs

SUBSPECIALTY: General Dietetics

Core Requirements

DIN	691	Research Methods in Dietetics	3 hrs
DIN	692	Laboratory Research Methods in Nutrition & Food Science	3 hrs
		OR	
DIN	693	Field Research Methods in Dietetics	3 hrs
DIN	695	Supervised Field Study in Dietetics	15 hrs
			21 hrs

Other Courses

DIN	530	Diet in Disease Prevention and Treatment	5 hrs
DIN	503	Nutrition Education in School and Community	5 hrs
		OR	
DIN	640	Advanced Community Nutrition	5 hrs
DIN	610	Advanced Food Science	
		OR	
DIN	690	Recent Research in Dietetics	5 hrs
DIN	601	Nutrition During the Life Cycle	5 hrs
			20 hrs

Approved electives to insure understanding of quality, food production, psychology, personnel management, statistics. 9 hrs

9 hrs

TOTAL 50 hrs

SUBSPECIALTY: Dietetic Management & Consultation

Core Requirements

DIN	691	Research Methods in Dietetics	3 hrs
DIN	692	Laboratory Research Methods in Food Science & Nutrition	3 hrs
DIN	695	Supervised Field Study in Dietetics	15 hrs
			21 hrs

Other Courses

DIN	610	Advanced Food Science	5 hrs
DIN	690	Recent Research in Dietetics	5 hrs
DIN	530	Diet in Disease Prevention and Treatment	5 hrs
DIN	620	Advanced Management of Dietary Systems	5 hrs
			20 hrs

Approved electives to include understanding of health care systems, social forces, personnel amanagment. 9 hrs

9 hrs

TOTAL 50 hrs

SUBSPECIALTY: Dietetic Education

Core Requirements

DIN	691	Research Methods in Dietetics	3 hrs
DIN	693	Field Research Methods in Dietetics	3 hrs
DIN	698	Thesis in Dietetics	10 hrs
			16 hrs

Other Courses

DIN	505	Dietetics and Communication	5 hrs
DIN	520	Dietetic Education	5 hrs
DIN	690	Recent Research in Dietetics	5 hrs
DIN	530	Diet in Disease Prevention and Treatment	5 hrs
			20 hrs

Approved electives to include understanding of personnel management, health care systems, and psychology. 9 hrs

9 hrs

TOTAL 45 hrs

DIETETICS AND NUTRITION

DIN 300 – ORIENTATION TO CLINICAL DIETETICS (3) **(F)**

Legal and ethnical considerations necessary for the student dietitian in clinical experiences. Educational and personal qualifications for specialization in dietetics. Prerequisite: Organic Chemistry.

DIN 301 – NUTRITION AND CULTURE (5) **(F)**

Nutrients and their interrelationships in reference to food habits and needs of various population groups. Introduction to the impact of culture of nutriture and study of personal food pattern development.

DIN 305 – FOOD AND THE CONSUMER (3) **(F,W,S)**
Survey of nutrition information relating to problems of today's consumer. Effects of soil, preservation, additives, health needs on nutritional recommendations for different age groups. (Recommended for non-majors.)

DIN 310 – MEAL MANAGEMENT AND SERVICE (5) **(F)**
Development of skills in basic techniques of purchasing, preparation and service of food for individuals and small groups. Includes laboratory and experiences in demonstration techniques. Prerequisite or corequisite: DIN 301.

DIN 320 – MANAGEMENT OF DIETARY SYSTEMS (9)* **(W)**
Development of beginning level competencies needed in management of dietary systems. Emphasizes skills in planning, implementing and evaluating management techniques in effective use of resources, human, financial and physical. Prerequisite: DIN 300.

DIN 330 – NUTRITION IN HEALTH AND DISEASE (9)* **(S)**
Techniques of adjusting nutrients and food intake to accommodate medical treatments and previous nutriture. Menu writing and analysis, translation of dietary prescriptions, techniques of dietary instruction, dietary histories. Prerequisite: DIN 320, Physiology and Biochemistry.

DIN 401 – NUTRITION II (5) **(F)**
Roles of nutrients in metabolic processes. Effects of excesses and deficiencies. Prerequisites: Biochemistry, Physiology and DIN 301.

DIN 410 – FOOD SCIENCE (5) **(S)**
Physical and chemical changes in food occurring as a result of various methods of processing, preparation, and storage of foods. Legal control, economic considerations, nutrient contributions of mass-produced foods compared with foods prepared on-site. Prerequisites: Biochemistry, DIN 301, DIN 310 or equivalent.

DIN 415 – FOOD AND NUTRITION SCIENCE (5) **(W)**
An overview of the effects of storage, processing and preparation techniques on food and its ingestion by humans. Laboratory included. Prerequisite: Background competency in Food and Nutrition. (Recommended for non-majors.)

DIN 440 – CLINICAL AND COMMUNITY NUTRITION I (6)* **(F)**
Study of community agencies available for nutritional guidance in relationship to mans' needs at all stages of the life cycle. Prerequisites: Biochemistry, Physiology. Microbiology prerequisite or corequisite.

* Indicates Clinical Component—open only to students in coordinated program

DIN 441 – CLINICAL AND COMMUNITY NUTRITION II (9)* **(W)**
Application of nutrition science to various needs and life style of population groups. Observation and participation in activities of health and social agencies. Study of research methods and data analysis. Prerequisite: DIN 440.

DIN 450 – SPECIAL PROBLEMS IN DIETETICS AND NUTRITION (3-9) **(W,S)**
In-depth study of nutrition problems or dietetic services chosen to coincide with student's interest and career goals. Methods of nutrition investigation, data analysis, techniques of technical writing. Prerequisites: permission of department chairman.

DIN 451 – ADVANCED CLINICAL PRACTICUM IN DIETETICS (3-9)* **(S)**
In-depth study combining theoretical concepts and clinical experience. Learning experience will be planned cooperatively by the student, campus instructor and clinical instructor to meet individual needs and goals of the student. Prerequisite: DIN 441.

DIN 490 – SEMINAR IN DIETETICS AND NUTRITION (3-9) **(S)**
Study of current dietetic and nutrition problems, and research findings. Prerequisite: DIN 440 or permission of instructor.

DIN 500 – RECENT RESEARCH IN NUTRITION (5) **(S)**
Updating of nutrition information. Study of current nutrition research and nutritional education. Prerequisite: One recent course in nutrition. Recommended for Home Economists.

DIN 501 – ETHNIC INFLUENCES ON NUTRITURE AND FOOD HABITS (5) **TBA**
Systematic study of the food habits of various cultural groups. Emphasis is placed on methodology, analysis of data, relationship of food habits to nutritional standards and corrective measures for any food patterns found to be inadequate. Prerequisite: Competency in food preparation and nutrition. Recommended for Home Economists.

DIN 503 – NUTRITION EDUCATION IN SCHOOL AND COMMUNITY (5) **(F)**
Critical review of lay nutrition literature and nutrition information in the community, public schools and adult education programs. Development of teaching materials and methods which are scientifically accurate and suitable to the person or group to be taught. Prerequisite: DIN 500 or equivalent and Principles of Learning, taught in fall term alternately with DIN 505. Recommended for Home Economists.

DIN 505 – DIETETICS AND COMMUNICATION (5) **(F)**
Covers concepts and techniques for effective professional com-

* Indicates Clinical Component—open only to students in coordinated program

munication with individuals, groups and other professional. Emphasis will be placed on differences in approach, and language in communicating with lay vs. professional people, personal contact with an audience vs. mass media. Professional accuracy of subject matter also included. Prerequisite: Advanced standing, competency in food and nutrition knowledge. Taught in fall quarter alternately with DIN 503. Recommended for Home Economists.

DIN 520 – DIETETIC EDUCATION (5) (S)
Development of competencies required by clinical instructors and university faculty in various programs of professional dietetic education. Emphasis will be on the concepts of professional dietetic education. Prerequisite: Permission of instructor. Taught spring quarter alternately with DIN 690.

DIN 530 – DIET IN DISEASE PREVENTION AND TREATMENT (5) (W)
Critical study of dietary treatment and regime, historical, current and experimental. Prerequisite: DIN 330 or equivalent. Taught every other winter term.

DIN 601 – NUTRITION DURING THE LIFE CYCLE (5) (F)
In-depth study of nutrient needs of individuals and groups at different stages of life. Emphasis on nutrient inter-relationships and effects of deficiencies and excesses on metabolism. Prerequisites: DIN 401 or equivalent. Taught fall term.

DIN 610 – ADVANCED FOOD SCIENCE (5) (W)
In-depth study of chemical and physical properties of inter active components of selected foods. Emphasis on effects of additive and methods of preparation and preservation. Prerequisite: DIN 410 or equivalent. Taught winter term alternately with DIN 530.

DIN 620 – ADVANCED MANAGEMENT OF DIETARY SYSTEMS (5) (S)
Emphasis on management and organizational theory. Innovative projects for the development of management competencies will be developed to meet needs of individual students. Prerequisite: Permission of instructor. Taught spring term alternately with DIN 640.

DIN 640 – ADVANCED COMMUNITY NUTRITION (5) (S)
In-depth study of assessment of nutriture in population groups and needs of public for nutrition information. Emphasis on nutrition consultation for health professionals and methods of delivery of dietary care. Prerequisite: DIN 441 or equivalent. Taught spring term alternately with DIN 620.

DIN 650 – INDIVIDUAL STUDY IN DIETETICS (2-5) (F,W,S,SS)
Further study and investigation of a phase of dietetics. Emphasis on

recent findings in dietetics and allied disciplines. Prerequisite: Consent of the Chairman of the Department.

DIN 690 – RECENT RESEARCH IN DIETETICS (5) (S)
Critical review of research in dietetics and allied disciplines such as management, food science and nutrition. Prerequisite: Competence in dietetic theory and practice. Taught Spring terms alternating with DIN 520.

DIN 691 – RESEARCH METHODS IN DIETETICS (3) (F)
Research method – consideration of scientific method and theoretical orientation as applied to research in dietetics. Special consideration given to various techniques of investigation, data collection, data organization and interpretation. Prerequisite: Permission of department chairman.

DIN 692 – LABORATORY RESEARCH METHODS IN NUTRITION AND FOOD SCIENCE (3) (W)

Laboratory application of research methods in dietetics. Prerequisite: DIN 691 and consent of department chairman.

DIN 693 – FIELD RESEARCH METHODS IN DIETETICS (3) (W)
Application of field research methods in interpreting and designing research studies. Introduction to interdisciplinary research approaches will be included. Prerequisite: DIN 690 and consent of department chairman.

DIN 695 – SUPERVISED FIELD STUDY IN DIETETICS (5-15) (F,W,S,SS)
Preplanned practical experience at the professional level in an area of dietetics. Critical written evaluation by student with frequent consultation and supervision of instructor. Prerequisite: Professional competency in dietetics and permission of the Chairman of the Department.

DIN 698 – THESIS IN DIETETICS (5-10) (F,W,S,SS)
By arrangement with student's thesis committee.

HEALTH SCIENCE MAJORS

The Health Science Program offers three tracks toward a major in Health Science: Health Science Management; Health Science Education; and Health Science General Studies.

PREREQUISITES

Open to students with an Associate of Science degree in the Allied Health field, an Associate of Arts (upon approval of the department) or the equivalent.

It is recommended that the student have experience in the following fields:

Economics
College Algebra
Accounting
Social Sciences
Introduction to Statistics

THE CORE

HSM 304 – Health and Social Service Delivery Systems
HSM 400 – Management for the Health Professions
HSM 401 – Information Systems

HEALTH SCIENCE/MANAGEMENT TRACK

Managing the complex operations of a modern health care organization calls for the versatile skills of top-flight executives. Accordingly, the curriculum provides in-depth training in health services and business administration, with strong supporting courses and electives in the liberal arts and sciences.

The program leads to a Bachelor of Science Degree and a variety of career opportunities in community hospitals, university medical centers, state and federal health agencies, nursing homes, and voluntary health agencies.

The course of study is designed to prepare graduating students to begin their careers in health administration at the middle-management level. Some students, however, choose to go directly on to graduate studies in health administration.

The graduate program in Health Management leads to a Master of Science in Management-Health Care. Refer to the School of Business Section of the Catalog for a program description.

Required Courses (5 credits each)

HSM 304 – Health & Social Service Delivery Systems
HSM 400 – Management for the Health Profession
HSM 401 – Information Systems
HSM 480 – Issues & Trends in the Health Care Delivery
MAN (HSM) 513 – Management Analysis in Health Care Institutions
MAN (HSM) 514 – Health Care Systems
MAN 517 – Human Resource Management in the Health Care Field
FIN (HSM) 518 – Health Care Financial & Accounting Management
HSM 495 – Legal Aspects & Legislation in Health Care

Electives

Electives (45 credit hours) may be taken upon consultation in any department in the university. Courses in hospital administration, administration of long-care facilities, health information systems, and comprehensive health planning will be available.

HEALTH SCIENCE/EDUCATION TRACK

This program is designed to meet the needs of students who desire little or no additional clinical courses but have expressed interest in becoming involved in educational processes within health care organizations. It is not the intent of this program to prepare people for certification as teachers.

Required Courses

HSM 304 – Health & Social Service Delivery Systems
HSM 400 – Management for the Health Profession
HSM 401 – Information Systems
EDU 516 – Instructional Media (4)
EVO 405 – Instructional Media for Vocational & Technical Teaching (5)
EVO 306 – Course Planning in Vocational & Technical Education (5)
EAD 519 – Program Development in Adult Education: Community Slant Instructional Level
HSM 495 – Legal Aspects, Legislation (5)

HEALTH SCIENCE/GENERAL STUDIES

This option is designed to meet the needs of persons that have completed a two year professional program and desire little or no additional clinical training. It allows the student to mold his curriculum around specific career needs.

Required Courses

HSM 304 – Health & Social Service Delivery Systems (5)
HSM 400 – Management for the Health Profession (5)
HSM 401 – Information Systems (5)
HSM 390 – Individual Study (10)
HSM 495 – Legal Aspects, Legislation (5)

Electives

Electives (65 credit hours) may be taken with consent of adviser.

HEALTH SCIENCE

HSM 304 – HEALTH AND SOCIAL SERVICE DELIVERY SYSTEMS (5)
The health and social service delivery team is discussed; the Dade County health delivery system is analyzed and compared with other systems in the world; alternative models of delivery are conceptualized.

HSM 400 – MANAGEMENT FOR THE HEALTH PROFESSIONS (5)
Fundamentals of management underlying the solution of problems of organization and operation of health programs.

HSM 401 – INFORMATION SYSTEMS (5)
Fundamental concepts of statistics, research design and electrical data processing as it relates to health programs.

HSM 480 – ISSUES AND TRENDS IN HEALTH CARE DELIVERY (5) (F,W,S)

Course is open to all students at the University. Survey of important issues, trends and problems affecting health delivery in our country.

HSM 481 – CONSUMER HEALTH AND SAFETY EDUCATION (5) (F,W,S)

Includes survey of the problems and products influencing the consumer of health services, and study of solutions to prevent and correct fraud.

HSM 482 – HEALTH LEADERSHIP (2) (S)

Course is designed for students in School of Health and Social Services. Study of health disciplines and their role in community health programs.

HSM 483 – THE CONSUMER AND SERVICE SYSTEMS (5) (F,W,S)

Every individual interacts with service organizations in the community, as a consumer of services or in other ways. (1) What are the philosophical assumptions behind operating policies? (2) How are these services organized, financed, managed? (3) How can the services be evaluated? (4) How can program change be accomplished? These questions will be examined for health, safety, social and consumer services, focusing on the individual's position and concerns.

HSM 484 – FAMILY HEALTH CENTERS–AN OVERVIEW (3) (S)

The family health center will be viewed as an entity within the health delivery system. It will be analyzed and evaluated as a functional unit with emphasis placed on humanistic approach to staffing and service patterns.

HSM 495 – LEGAL ASPECTS AND LEGISLATION IN HEALTH CARE (5) (S)

A study of how the law affects health care in the public and private sectors. The course is designed to aid professional and allied health personnel to identify legal issues and utilize preventive measures to avoid legal entanglements. Formal lectures and seminar participation will be utilized.

MAN (HSM) 513 – MANAGEMENT ANALYSIS IN HEALTH CARE INSTITUTIONS (5)

For course description see School of Business and Organizational Science.

MAN (HSM) 514 – HEALTH CARE SYSTEMS (5)

For course description see School of Business and Organizational Science.

MAN (HSM) 515 – HEALTH PLANNING TECHNIQUES

For course description see School of Business and Organizational Science.

MAN (HSM) 517 – HUMAN RESOURCES IN HEALTH FACILITIES (5)

For course description see School of Business and Organizational Science.

ACC (MAN-HSM) 518 – HEALTH CARE FINANCIAL AND ACCOUNTING MANAGEMENT

The financial framework within which health care organizations and facilities operate. The course covers the principles or working capital management, capital budgeting, and the capitalization process in the health care environment. Topics emphasized include inventory management, accounts receivable management, sources of operating revenue, third party payers, budgeting for operating costs, long-term investment, and long-term financing. The student is expected to understand and participate in the financial decision-making process of health care organizations.

MAN (HSM) 680 – PROBLEM SOLVING IN HEALTH MANAGEMENT (5) (W)

For course description see School of Business and Organizational Science.

MAN (HSM) 682 – HEALTH DELIVERY SYSTEMS (5)

For course description see School of Business and Organizational Science.

MAN (HSM) 683 – THE HEALTH ENVIRONMENT (5)

For course description see School of Business and Organizational Science.

MAN (HSM) 684 – HEALTH CARE FACILITIES ORGANIZATION AND MANAGEMENT (5)

For course description see School of Business and Organizational Science.

MAN (HSM) 685 – HOSPITAL ORGANIZATION AND ADMINISTRATION (5) AND ADMINISTRATION (5)

For course description see School of Business and Organizational Science.

MAN (HSM) 687 – SEMINAR IN HEALTH MANAGEMENT (1-5)

For course description see School of Business and Organizational Science.

MEDICAL TECHNOLOGY MAJORS

The Medical Technology Program prepares responsible and competent professional medical technologists who are able to utilize scientific principles in the development, performance, evaluation, and control of laboratory tests used in patient management. Graduates will be eligible to take the Florida Licensure Examination for Medical Technologists. The Medical Technology program is designed to meet the requirements of the Board of Schools of the American Medical Association and the American Society of Clinical Pathologists. Graduates are eligible to apply for certification by the Registry of Medical Technologists of the American Society of Clinical Pathologists. After passing the Registry examination, the graduate may use the title M.T. (A.S.C.P.). A limited number of students can be accepted into the Medical Technology program each fall term. Admission to the program is a prerequisite for all MDT courses.

Entrance to clinical practicum is subject to the approval of the affiliated health care agency.

LOWER DIVISION PREPARATION:

The student requesting admission to the program should have completed the following:

90 quarters (or 60 semester hours) at an accredited two or four year institution of higher education.
2 semesters of General Chemistry with laboratory.
2 semesters of Principles of Biology.
1 semester of pre-calculus mathematics.
C average (or equivalent) in science required courses.

If alternate programs have been completed such as CLEP examinations, the sophomore level science requirements, with laboratory, should be completed prior to admission to the program. If these courses are taken at Florida International University, the length of training time may be prolonged.

LOWER OR UPPER DIVISION SCIENCES:

Courses required prior to completion of the Medical Technology Program may be taken in the lower division or in parallel with those listed below. Note, in sequence, some may be taken concurrently and others should preceed specific Medical Technology courses.

Organic Chemistry I and II including laboratory.
Quantitative Analysis including laboratory.
Immunology.
Parasitology including laboratory.
Biochemistry including laboratory.
General Microbiology including laboratory.
Physics including laboratory.

Life experience and/or training through a program not recognized by the Southern Association of Universities may be substituted through proficiency examination for any or all of the Junior "Teaching" laboratories. It can not be accepted in lieu of lower division prerequisites. Medical technology lecture courses must be taken.

MDT courses are limited to students who meet the prerequisites and are admitted to the program or have special permission of the instructor.

UPPER DIVISION PROGRAM:

JUNIOR YEAR

Fall Term (Required)			CREDITS
MDT	401	Clinical Hematology Lecture	2
MDT	401	Clinical Hematology Laboratory	3
MDT	471	Hematology Correlation Lecture	2
Suggested Supplemental Courses			
CHE	301	Organic Chemistry I Lecture & Laboratory	7
BSC	310	Microbiology Lecture & Laboratory	7
CHE	305	Inorganic Chemistry for Medical Technologists Lecture & Laboratory	7

BSC	374	Physiology Lecture & Laboratory	5

Winter Term (Required)

MDT	402	Teaching Laboratory, Serology & Blood Banking	2
MDT	403	Teaching Laboratory, Clinical Microbiology	2
MDT	472	Lectures in Serology & Blood Banking	2
MDT	473	Lectures in Clinical Microbiology	2

Suggested Supplemental Courses

CHE	312	Quantitative Analysis	5
CHE	302	Organic Chemistry II	7
BSC	376	Immunology	5
BSC	375	Parasitology	3

Spring Term (Required)

MDT	404	Teaching Laboratory, Chemistry	4
MDT	404	Clinical Chemistry Methods	3
MDT	474	Lectures in Clinical Chemistry	2

Suggested Supplemental Courses

BSC	341	Genetics	5

SENIOR YEAR

Fall Term (Required)			CREDITS
MDT	457	Practicum I	4
MDT	481	Advanced Chemistry	3
MDT	551	Seminar I	1

Suggested Supplemental Courses

PHY	305	Physics with Calculus	5
PHY	301	Physics Laboratory	2
BSC	372	Human Anatomy	5

Winter Term (Required)

MDT	458	Practicum II	4
MDT	482	Advanced Hematology	3
MDT	552	Seminar II	1

Suggested Supplemental Courses

BSC	301	Biochemistry	7
BSC	301	Biochemistry Laboratory	5
BSC	407	Biochemistry	6

Spring Term (Required)

MDT	459	Practicum III	4
MDT	483	Advanced Microbiology	3
MDT	553	Seminar II	1

Suggested Supplemental Courses

MDT	484	Laboratory Management	2
MDT	525	Individualized Study	2-5
HSM	304	Health Delivery Systems	5
HSM	401	Information Systems	5
HSM	505	Personnel Management	5
MAS	307	Introduction to Statistics	5
EVO	507	Curriculum Development Technology Vocational Education	4

BSC 375 – PARASITOLOGY (3) **(S)**
Classification, morphology, and life cycles of medically significant parasites. Emphasis on epidemiology, pathogenesis, symptomatology and control. Lecture and laboratory.

MDT 401 – HEMATOLOGY TEACHING LABORATORY (3), LECTURES (2) **(F)**
Laboratory practice in hematology, hemoglobinometry, urinalysis, coagulation. Required course. Proficiency test may be substituted.

MDT 402 – SEROLOGY, BLOOD BANK TEACHING LABORATORY (2) **(W)**
Practice in basic serological techniques. Laboratory practice in blood grouping, recognition and identification of irregular antibodies, and compatibility testing. Required course. Proficiency tests may be substituted. Immunology prerequisite or concurrent.

MDT 403 – MICROBIOLOGY TEACHING LABORATORY (2) **(W)**
Laboratory practice in preparation, choice, and use of media for isolation and identification of frequently encountered human pathogenic bacteria. Recognition of normal flora. Use of bacteriological stains. Practice in isolation of anaerobes. Mycological techniques. Required course. Proficiency tests may be substituted. General Microbiology prerequisite. Immunology prerequisite or concurrent.

MDT 404 – METHODS IN CLINICAL CHEMISTRY LECTURES (3), LABORATORY (4) **(S)**
Introduction to analysis of carbohydrates, proteins, lipids, enzymes, and electrolytes. Correlation between structure, chemical properties, and methods of analysis. Basic instrumentation. Introduction to automated analysis with emphasis on continuous flow. Quality control. Proficiency tests may be substituted for laboratory. Prerequisites – Inorganic Chemistry, Organic Chemistry, Quantitative Analysis.

MDT 475, 458 & 459 – PRACTICUM I, II & III (4) **(F,W,S)**
Hospital laboratory experience, 3 quarters required. The hospital laboratory has been subdivided into 9 departments. Each student will rotate through 3 different departments during each quarter. A student with life experience in a particular department may elect to spend extra time in another department or on an individualized project during that rotation. Rotation to be arranged with the hospital laboratory director and Florida International University faculty coordinator. perequisite: completion of all Junior level courses.

MDT 471 – LECTURES IN HEMATOLOGY (2) **(F)**
Theory and pathology of hematology, blood coagulation, and discussion of urinary findings in health and disease. Required course.

MDT 472 – LECTURES IN SEROLOGY AND BLOOD BANKING (2) **(W)**

Theory of seriological and immunological tests performed in MDT 402. Medical background of patients for whom these tests are indicated. Description of Blood Bank and Transfusion Service operation. Required of all Medical Technology students.

MDT 473 – LECTURES IN CLINICAL MICROBIOLOGY (2) **(W)**

Microbial agents of disease. Action of anti-microbials. Medical aspects of infections by bacterial pathogens. Diseases caused by streptomycetes and fungi. Mycology of the dermatophytes. Required of all students.

MDT 474 – LECTURES IN CLINICAL CHEMISTRY (2) **(S)**

Biochemical tests used in diagnosis and treatment of metabolic disorders. Carbohydrate and protein metabolism, acid-base balance, enzymes, testing for organ function. Required.

MDT 481 – ADVANCED CHEMISTRY (3) **(F)**

Lectures. Specialized techniques. Automation, Quality Control. Instrumentation. Steroid Chemistry, Radio-immune assays. Seniors only.

MDT 482 – ADVANCED HEMATOLOGY (3) **(W)**

Lectures. Bone marrows. Special techniques in hematology. Automated hematology. Operation of blood banks. Seniors only.

MDT 483 – ADVANCED MICROBIOLOGY (3) **(S)**

Lectures. Identification of unusual microorganisms, fluorescent antibody techniques, Serology, Virology. Seniors only.

MDT 484 – LABORATORY MANAGEMENT (2) **(S)**

Personnel handling, laboratory records, laboratory computers, purchasing of laboratory equipment, quality assurance programs, work-load studies, scheduling and method evaluations. Optional.

MDT 525 – INDIVIDUAL STUDY (2-5) **(F,W,S)**

An opportunity to study a specific problem or laboratory area in depth. Seniors only. Special arrangement with faculty adviser.

MDT 551, 552 & 553 – SEMINAR (1) **(F,W,S)**

Three quarters required. Special discussion topics. Preparation and presentation of literature reviews and individualized projects. Instructional methods. Supervising techniques. Seniors only.

NURSING MAJORS

Baccalaureate education in nursing is the foundation for graduate study and the reservoir for leadership and change in a dynamic, democratic society. The

Nursing Program is designed to prepare the Registered Nurse both academically and clinically to expand the nursing role through emphasis on professional commitment, community involvement, and preventive health care. In addition to the basic nursing core, suggested curricula with special emphasis in anthropology, community affairs, education, health management, international affairs, psychology, philosophy and religion, and sociology are available.

Admission to the program is open to individuals **currently** licensed as Registered Nurses.

LOWER DIVISION PREPARATION:

Requirements:

Students may be admitted who meet the following requirements:

(1) graduation from a diploma or Associate Degree Nursing Program
(2) current licensure as a Registered Nurse
(3) 45 hours academic credit in general education

Remarks:

Validating Examinations may be given.

UPPER DIVISION PROGRAM:

A Sample Program of Study: (These courses are not necessarily sequential. Check course listings each quarter for course offerings.)

			CREDITS
Quarter I			
		Interdisciplinary Course	5
		Elective	10
			15
Quarter II			
NUR	350	Nursing in an Evolving Health Care System	5
		Interdisciplinary Course	5
		Elective	5
			15
Quarter III			
NUR	420	Nurses' Role in the Process of Change	5
		Interdisciplinary Course	5
		Elective	5
			15
Quarter IV			
NUR	440	Individual Study	5
		Interdisciplinary Course	5
		Elective	5
			15
Quarter V			
NUR	450	Advanced Clinical Concepts	10
		Nursing Elective	5
			15

Quarter VI

NUR	460	Community Health Nursing	10
		Nursing Elective	5
			15

NURSING

NUR 350 – NURSING IN AN EVOLVING HEALTH CARE SYSTEM (5) **(F,W,S,SS)**

Current trends and issues related to the evolution of nursing will be analyzed to provide increased understanding of nursing roles in the delivery of health care. Nursing elective, open to non majors.

NUR 420 – NURSES' ROLE IN THE PROCESS OF CHANGE (5) **(F,W,S,SS)**

The nurse participates in the change process in her role as an independent practitioner, an involved community health care advocate, an administrator, a coordinator of patient-care, a facilitator of learning. Emphasizes examination of selected elements of the change process such as communication with self and others, group dynamics, problem-solving and decision making, and the research process, and application of these concepts to the improvement of health care in the community.

NUR 440 – INDIVIDUAL STUDY (5) **(F,W,S,SS)**

Designed to promote critical thinking and independence, and to encourage the application of the problem-solving process in an action-oriented or research project in nursing. Prerequisite: NUR 420.

NUR 450 – ADVANCED CLINICAL CONCEPTS (10) **(F,W,S,SS)**

Designed to emphasize expansion of the role of the Registered Nurse in the health care delivery system. Includes psycho-social and physical assessment of the health status, and teaching and planning for health care in collaboration with other health team members. Supervised clinical experiences in a variety of settings. Prerequisites: For Nursing Majors only; Senior standing. (Recommended preparation: BSC 451)

NUR 460 – COMMUNITY HEALTH NURSING (10) **(F,W,S,SS)**

Basic principles of community health, as well as historical perspectives of public health, medicine, nursing and social services are used to generate an understanding of community health nursing today. Focuses on acquisition of knowledges, attitudes and skills needed to promote a state of wellness in the individual, family, and community. For Nursing Majors only; senior standing.

NUR 502 – INTERNATIONAL DIMENSIONS OF NURSING AND HEALTH CARE (5) **(F,S)**

Emphasizes the importance of cooperation in international health

and focuses on forces that affect health care in any country, i.e., historical, geographical, political, economic, educational, and socio-cultural. Study is made of nursing practice and education in several countries, analyzing factors which have influenced nursing and the health care system. Emphasis is on the developing world. Nursing elective. Open to non-majors.

NUR 501 – CRISIS INTERVENTION (5) **(F,W,S)**

Opportunities for the "helping" professions to examine the theories of stress including the physiological and psychological manifestations as seen in a crisis situation. Behavioral assessment and planned intervention will be emphasized in seminars and individual project selection. Nursing Elective. Open for non-majors.

NUR 504 – ISSUES AND PROBLEMS IN NURSING ADMINISTRATION (5) **(F,W,S)**

Problem-solving utilized in selected aspects of nursing administration and principles of management applied to current issues and problems occurring with frequency in health care institutions related to nursing. Nursing Elective. Open to non-majors.

OCCUPATIONAL THERAPY MAJORS

Occupational therapy is the art and science of directing man's participation in selected tasks to restore, reinforce and enhance performance, facilitate learning of those skills and functions essential for adaptation and productivity, diminish or correct pathology, and promote and maintain health. Since the primary focus of occupational therapy is the development of adaptive skills and performance capacity, its concern is with factors which serve as barriers or impediments to the individual's ability to function, as well as those factors which promote, influence or enhance performance.

Occupational therapy serves a wide population in a variety of settings such as hospitals and clinics, rehabilitation facilities, long-term care facilities, extended care facilities, sheltered workshops, and community agencies.

REQUIREMENTS FOR ADMISSION

In addition to meeting the requirements for admission to the University, the applicant must qualify for admission to the occupational therapy program. Because this is a medically allied program, applicants are expected to present evidence of general physical fitness and emotional stability. A personal interview is required.

LOWER DIVISION PREPARATION:

Prerequisites include:

Biology	1 quarter
Chemistry	1 quarter

Sociology	1 quarter
Basic Design	1 quarter
Zoology	1 quarter
Psychology	2 quarters
Mathematics	1 quarter

UPPER DIVISION PROGRAM:

JUNIOR YEAR

Fall Term			CREDITS
		OCT	
OCT	300	Introduction to Occupational Therapy	3
BSC	355	Human Anatomy	5
BSC	350	Physiology	7
OCT	315	Weaving	4
OCT	325	Weaving – Therapeutic Analysis	1
			20
Winter Term			
BSC	356	Human Anatomy	4
BSC	358	Human Anatomy Lab	1
PHT	310	Kinesiology	5
OCT	316	Minor Crafts	4
OCT	326	Minor Crafts – Therapeutic Analysis	1
PSY	360	Theories of Personality	5
			20
Spring Term			
BSC	357	Neuro-Science	6
PSY	461	Abnormal Psychology	5
OCT	320	Pathology	2
OCT	330	Physical Disability Theory	5
OCT	335	Principles of Practice	2
			20

SENIOR YEAR

TEY	320	Technology for Occupational Therapy	5
FIA	365	Ceramics	5
OCT	420	Psychiatric Occupational Therapy Theory	5
OCT	432	Disability Evaluation I	2
			17
Winter Term			
OCT	421	Psychiatric Occupational Therapy Theory	5
OCT	431	Physical Disability Theory	5
OCT	450	Developmental Theory	5
OCT	433	Disability Evaluation II	3
			18

Spring and Summer Terms

OCT	460	Field Work Experience	5
OCT	461	Field Work Experience	5
			10

Fall Term

OCT	410	Organization and Administration	5
OCT	440	Rehabilitation Seminar	3
		Elective	5
			13

OCCUPATIONAL THERAPY

OCT 300 – INTRODUCTION TO OCCUPATIONAL THERAPY (3) **(F)**
History and development of the profession. Philosophy of treatment.

OCT 315 – WEAVING (4) **(F)**
The study of loom and non-loom weaving techniques.

OCT 325 – WEAVING – THERAPEUTIC ANALYSIS (1) **(F)**
Therapeutic Analysis.

OCT 316 – MINOR CRAFTS (4) **(W)**
Study of man's creative expression through crafts.

OCT 326 – MINOR CRAFTS – THERAPEUTIC ANALYSIS (1) **(W)**
Therapeutic analysis.

OCT 320 – PATHOLOGY (2) **(S)**
Brief review of organ systems, primary diseases that affect each organ with specific emphasis on the disabilities that would result from disease. Prerequisites: Anatomy, physiology.

OCT 330 – PHYSICAL DISABILITY THEORY (5) **(S)**
The study of occupational therapy as related to physical disabilities. Development and status of current treatment techniques. Lecture and lab. Prerequisites: Anatomy, physiology, kinesiology.

OCT 335 – PRINCIPLES OF PRACTICE (2) **(S)**
Introduction to processes of professional practice in treating functional limitations.

OCT 360 – SPECIALIZED FIELD SERVICE (variable) **(SS)**
Pre-clinical experience in an approved training center to meet individual interests and needs.

OCT 410 – ORGANIZATION AND ADMINISTRATION (5) (F)
Administrative procedures in planning and operating an occupational therapy treatment program.

OCT 420 – PSYCHIATRIC OCCUPATIONAL THERAPY THEORY (5) (F)
Theories and approaches to psychological aspects of illness in the rehabilitative process.

OCT 421 – PSYCHIATRIC OCCUPATIONAL THERAPY THEORY (5) (W)
Continuation of OCT 420. Prerequisite: OCT 420.

OCT 431 – PHYSICAL DISABILITY THEORY (5) (W)
Continuation of OCT 330. Includes activities of daily living and homemaking for the disabled, the use and building of splints and adaptive equipment. Prerequisites: OCT 330, Technology in Occupational Therapy.

OCT 432 – DISABILITY EVALUATION I (2) (F)
Evaluation of work potential in the cultural milieu.

OCT 433 – DISABILITY EVALUATION II (3) (W)
Evaluation procedures in the testing of perceptual-motor dysfunction. Prerequisites: Anatomy, physiology, neuro-science.

OCT 440 – REHABILITATION SEMINAR (3) (F)
Research in occupational therapy and related medical fields.

OCT 450 – DEVELOPMENTAL THEORY (5) (W)
The use of developmental theory in occupational therapy practice.

OCT 460 – FIELD WORK EXPERIENCE (5)
Three month internship in a physical disabilities treatment center.

OCT 461 – FIELD WORK EXPERIENCE (5)
Three month internship in a mental health treatment center.

OCT 462 – FIELD WORK EXPERIENCE (variable)
Internship in a specialized treatment area.

OCT 500 – INDEPENDENT STUDY (variable)

OCT 501 – CURRENT RESEARCH IN OCCUPATIONAL THERAPY (1-5)
Review of statistical concepts and research procedures in the clinical setting with in-depth study of current status of research in occupational therapy.

OCT 502 – CURRENT TRENDS IN MENTAL HEALTH AS RELATED TO OCCUPATIONAL THERAPY PRACTICE (1-5)
Specialized study of specific treatment theories and the application of these theories to clinical practice.

OCT 503 – THE STUDY OF GERONTOLOGY AS RELATED TO OCCUPATIONAL THERAPY PRACTICE (1-5)

A study of the impact of advances in the field of gerontology and current legislation on the profession.

OCT 504 – EVALUATION AND TREATMENT OF PERCEPTUAL-MOTOR DYSFUNCTION (1-5)

The study of specific evaluation tools and the developing treatment procedures as directly related to these tests.

PHYSICAL THERAPY MAJORS*

Physical Therapy is a health profession which develops, coordinates and utilizes specialized knowledge and skill in evaluating the need for and implementing programs designed to prevent or therapeutically deal with physical functional loss related to injury or disease processes. Primary emphasis of prevention and treatment is on the neuromusculoskeletal, pulmonary, and cardiovascular systems.

Through classroom, laboratory, and clinical experiences the Physical Therapy student becomes skilled in the evaluation, care and understanding of patients, organization and administration of Physical Therapy services, the understanding of community health care delivery systems, and research techniques. Graduate may become involved in: direct patient care, administration, consulting or research at a facility, community, state, or national level.

PROCEDURES FOR ADMISSION:

In addition to meeting the general requirements for admission to the University, the applicant must also apply for admission to the Physical Therapy Program.

An applicant, for admission to the Physical Therapy Program, must have completed no less than 90 quarter hours or 60 semester hours of acceptable college credit.

Prospective Physical Therapy students must present evidence of successful completion of pre-professional courses. All students are required to have completed at least one year of science course work (with laboratory) with at least an average of C (or equivalent).

Since there is more demand for Physical Therapy than can be met, it is necessary to be selective in admitting students. This means that a student may be admissable to the University and still not be selected for admission into the Physical Therapy Program.

LOWER DIVISION PREPARATION: (At Least One Year)

Biology
Chemistry
Physics
Psychology

UPPER DIVISION PROGRAM:

JUNIOR YEAR

Fall Term			CREDITS
BSC	355	Human Gross Anatomy	4
BSC	355L	Human Gross Anatomy Lab	2
BSC	350	Intermediate Human Physiology	4
BSC	350L	Intermediate Human Physiology Lab	2
PHT	311	Kinesiology I	3
PHT	330	Principles of Pharmacology	2
			17

Winter Term			
BSC	356	Human Gross Anatomy	4
BSC	351	Intermediate Human Physiology	4
PHT	312	Kinesiology II	2
PHT	322	Musculo-Skeletal Evaluation I	3
PHT	352	Therapeutic Exercise I	2
PHT	332	Clinical Clerkship I	1
BSC	356L	Human Gross Anatomy Lab	2
			18

Spring Term			
BSC	357	Neuroanatomy	2
PHT	320	Principles of Pathology	4
PHT	323	Musculoskeletal Evaluation II	3
PHT	353	Therapeutic Exercise II	2
PHT	333	Clinical Clerkship II	2
BSC	357L	Neuroanatomy Lab	1
BSC	352	Neurophysiology	2
			16

Summer Term			
PHT	314	Orthopedic Surgery	5
PHT	314C	Clinical Orthopedics	3
PHT	324	Prosthetics & Orthotics	3
PHT	344	Dynamics of Patient-Therapist Relationships	2
PHT	354	Rehabilitation	2
			15

SENIOR YEAR

Fall Term			
PHT	415	Neurology & Neuro-Surgery	3
PHT	415C	Clinical Neurology	4
PHT	425	Neurophysiological Evaluation	3
PHT	435	Clinical Clerkship III	2
PHT	455	Reflex Basis of Therapeutic Exercise	2
OCT	450	Developmental Theory	3
			17

Winter Term

PHT	426	Research Methods and Design I	4
PHT	456	Neuro-Physiologic Techniques	5
PHT	416	Electro-Diagnosis	3
PHT	436	Clinical Clerkship IV	3
PHT	446	Community Medicine	2
			17

Spring Term

PHT	447	Organization & Administration	5
PHT	427	Research Methods and Design II	2
PHT	437	Clinical Clerkship V	5
PHT	407	Independent Study Elective (2-5)	Var.
			12

Summer Term

PHT	438	Internship	9
			9

PHYSICAL THERAPY

PHT 311 – KINESIOLOGY I (3) **(F)**
A study of the anatomical, physiological and biomechanical principles as they relate to body movement.

PHT 312 – KINESIOLOGY II (2) **(F)**
An analysis of movement of the extremities back and normal human gait through self-directed learning packages and lecture-discussion sessions.

PHT 314 – ORTHOPEDIC SURGERY (5) **(SS)**
Lectures and patient case studies, presented by physicians, covering the patient evaluation, indications procedures and the post-operative management of surgical patients and the medical management of non-surgical patients.

PHT 314C – CLINICAL ORTHOPEDICS (3) **(SS)**
Correlated with Orthopedic Surgery (PHT 314), application of physical therapy evaluation, treatment and management procedures are made to patients referred to physical therapists by physicians.

PHT 322 – MUSCULOSKELETAL EVALUATION I (3) **(W)**
Laboratory experiences in measuring and recording the physical status of the musculoskeletal system using the manual means of palpation, movement, muscle strength testing and goniometry.

PHT 323 – MUSCULO-SKELETAL EVALUATION II (3) **(S)**
An extension of the learning experiences in PHT 322.

PHT 324 – PROSTHETICS AND ORTHOTICS (3) (SS)
A presentation of the biomechanics, anatomy, and appliances necessary to the evaluation, prescription, fabrication and use of prosthetic and orthotic devices.

PHT 332 – CLINICAL CLERKSHIP I (1) (W)
Supervised clinical experience within the local community designed to afford the student an ever enlarging view of Physical Therapy Departments and their services with ever increasing responsibility of the student for the care of patients.

PHT 333 – CLINICAL CLERKSHIP II (2) (S)
Extension of PHT 332

PHT 334 – CLINICAL CLERKSHIP III (2) (S)
Extension of PHT 332

PHT 352 – THERAPEUTIC EXERCISE I (2) (F)
An introduction to the theory and techniques of basic physical therapy modalities and procedures: hydrotherapy, massage and electrotherapy. Rational, physiological effects, indication contra-indications, and complications are presented in lecture and programmed instruction. Techniques are demonstrated and practiced in a laboratory setting.

PHT 353 – THERAPEUTIC EXERCISE II (2) (S)
A presentation of the traditional therapeutic exercise regimens and rationale and the use of exercise apparatus in patient treatment.

PHT 354 – REHABILITATION (2) (SS)
A presentation of the causes, functional evaluation and interpretation, treatment program planning and assistive appliances necessary to the total treatment of the severely physically disabled.

PHT 407 – INDEPENDENT STUDY (2-5) (S,F)
(By permission of Physical Therapy Faculty). The student will select a particular aspect of physical therapy or a related field for in-depth independent study.

PHT 415 – NEUROLOGY AND NEUROSURGERY (3) (F)
Lectures and patient case studies presented by neurologists and neuro-surgeons, covering patient evaluation, indications, procedures and the post-operative management of surgical patients and the medical management of non-surgical patients.

PHT 415C – CLINICAL NEUROLOGY (4) (F)
Correlated with Neurology and Neuro-Surgery (PHT 415), applications of physical therapy evaluation, treatment and management

procedures are made to patients referred to physical therapists by neurologists and neuro-surgeons.

PHT 416 – ELECTRODIAGNOSIS (3) **(F)**
An introduction to the theory and techniques of the electrodiagnostic procedures utilized in physical therapy practice. Techniques are practiced in supervised laboratory settings.

PHT 425 – NEUROPHYSIOLOGICAL EVALUATION (3) **(F)**
A study of the neurophysiologic techniques of Knott, Road, Brunstrum, and Bobath, with emphasis on practical application to patient evaluation.

PHT 426 – RESEARCH METHODS AND DESIGN I (2) **(W)**
Introduction to basic statistics, research design with demonstration of methods of application and problem solving experiences.

PHT 427 – RESEARCH METHODS AND DESIGN II (2) **(S)**
A continuation of PHT 426 in which the student will complete his research project.

PHT 436 – CLINICAL CLERKSHIPS IV (3) **(F)**
Extension of PHT 332

PHT 437 – CLINICAL CLERKSHIPS V (5) **(S)**
Extension of PHT 332

PHT 438 – CLINICAL INTERNSHIP I (9) **(S)**
Supervised full-time clinical experience design to afford the student the opportunity to gain experience in the total care of patients, the administration and supervision inherent in a Physical Therapy Department, and experience in his chosen area of specialization.

PHT 446 – COMMUNITY MEDICINE (3) **(SS)**
Principles of public health and preventative medicine with emphasis on contemporary health problems. Taking an analytical look at the issues or constraints on private medicine and public health in securing resources to cope with the community health problems and problems of the articulation between these facilities.

PHT 447 – ORGANIZATION AND ADMINISTRATION (5) **(S)**
A didactic course designed to provide learning experiences in the design and operation of various types of physical therapy departments.

PHT 320 – PRINCIPLES OF PATHOLOGY (variable) **(S)**
A study of the systemic and specific body tissue responses to disease and trauma.

PHT 330 – PRINCIPLES OF PHARMACOLOGY (variable) **(F)**
A diagnostically oriented introduction to the generic families, actions, side effects, indications, and contraindications of drugs.

PHT 344 – DYNAMICS OF PATIENT-THERAPIST RELATIONSHIPS (2) (SS)
Through lecture and skills laboratories, the student will learn the components of the physical therapist-patient relationship, implications of various diagnoses, and the use of self as it relates to physical therapy treatment.

PHT 455 – REFLEX BASIS OF THERAPEUTIC EXERCISE (F)
Physical therapists' participation in growth and development testing and training. Rationale for various tests; tests as basis for programs of neuromuscular facilitation techniques.

PHT 456 – NEUROPHYSIOLOGIC TECHNIQUES (5) (S)
Application of treatment procedures of the neurophysiologic techniques studies in PHT 425.

SOCIAL WORK MAJORS

The goals of the Florida International Social Work program are to offer an integrated educational experience which combines the theoretical and practical to prepare students for:

1. Direct Social Work practice.
2. Entrance into graduate work.
3. Participation in the society as informed citizens though their primary professional interests be elsewhere.

LOWER DIVISION PREPARATION:

Required Courses: Prerequisite for acceptance into the Social Work program is the Associate Arts degree from a Social Science stream of a pre-Social Work program. Equivalent work from a four-year institution will also be acceptable. Students not meeting this requirement may be accepted for admission and an individualized program of study designed in consultation with the Dean of the School of Health and Social Services.

Recommended Courses: Equivalent courses to PSY 307 & SOW 301 may be offered in the Community College and students are urged to take them before entering Florida International.

UPPER DIVISION PROGRAM:

JUNIOR YEAR

Fall Term (Required)			CREDITS
SOW	301	Historical & Philosophical Perspectives of Social Welfare Services*	5
SOW	302	Contemporary Issues & Problems in Social Welfare Policy	5
ANT	403	Anthropological Approaches to Cultural Minorities	5
PSY	307	Human Growth and Development*	5

Winter Term (Required)

SOW	305	Dynamics of Human Behavior and Social Environment I	5
SOW	306	Self-Awareness, Self-Modification and Service	5
HSM	304	Health and Social Service Delivery Systems	5

Spring Term (Required)

SOW	307	Social Work Practice Skills I	5
SOW	308	Field Experience I	10

SENIOR YEAR

Fall Term (Required)

SOW	407	Social Work Practice Skills II	5
SOW	419	Field Experience II	10

Winter Term (Required)

SOW	401	Methods of Community Research	5
		Two Electives	10

Spring Term (Required)

SOW	429	Senior Project	5-15
		Three Electives	15

* Required only if not satisfactorily completed at the Community College level.

** The student in consultation with a school adviser will opt to complete his second field experience the first or second quarter of his senior year.

SOCIAL WORK

SOW 301 — HISTORICAL AND PHILOSOPHICAL PERSPECTIVES OF SOCIAL WELFARE SERVICES (5) (F,W,S)

This course is a sequential and cumulative examination of Social Welfare and the changing role of Social Work. The focus will be creating awareness in the individual in relation to the question: How Do We Want to Live?

SOW 302 — CONTEMPORARY ISSUES AND PROBLEMS IN SOCIAL WELFARE POLICY (5) (F,W,S)

This course is designed to enable the student to identify urgent issues and problems as related to social welfare on a local, national and international basis.

SOW 305 — DYNAMICS OF HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I (5) (F,W,S)

Designed as an introduction to the psychological foundations of social work practice, this course may also be of interest to individuals considering a career in one of the helping professions. The course surveys major perspectives and current concepts in the

areas of personality theory, adjustment psychology, psychopathology, and the treatment of adjustive failures. The individual environment interaction position is emphasized throughout. Prerequisites: PSY 307, PSY 330 or their equivalents.

SOW 306 – SELF-AWARENESS, SELF MODIFICATION AND SERVICE (5) **(F,W,S)**

An experientially oriented course directed toward helping students become aware of their own intra-personal and inter-personal processes and how these may influence their skill and effectiveness as professional helping persons. Emphasis is on personal learning.

SOW 307 – SOCIAL WORK PRACTICE SKILLS I(5) **(F,W,S)**

This five-hour course is designed to provide an overview of Social Work intervention for the beginning practitioner. The generic values, attitudes and process in client-worker relationship building will be discussed and analyzed. Authentic case material taken from local community social agencies will be utilized in the classrooms to better acquaint the students with initial and ongoing case assessment, mode of intervention and goal setting and implementation. Prerequisite: SOW 305 and SOW 306 or their equivalent Corequisite: SOW 308.

SOW 308 – FIELD EXPERIENCE I (10) **(F,W,S)**

Supervised work experience in Social Service agencies. Coordinating seminars involve students, professors, the school's Director of Field Instruction and field instructors. Prerequisite: SOW 301, 302, 305, 306 or their equivalents. Pre- or Corequisite: SOW 307 or its equivalent.

SOW 401 – METHODS OF COMMUNITY RESEARCH (5) **(F,W,S)**

Introduction to research design, analysis, evaluation and data collection techniques. Each student will isolate a specific community problem area in South Florida and apply the appropriate techniques that will allow a critical evaluation of the situation.

SOW 405 – DYNAMICS OF HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II (5) **(F,W,S)**

This course is a sequel to SOW 305. It will focus primarily on an in-depth examination of the psycho-social make-up and dynamics of certain problematic individuals and situations frequently encountered in individual and group work practice (i.e., specific types of socially maladjusted and psychologically distressed children, adolescents, adults, the aged, families in distress, etc.) An examination of the personality make-up and social dynamics of certain minority group members (i.e. Blacks and Spanish-speaking) will also be undertaken. Emphasis will be on the development of insights basic to future successful helping strategies. Prerequisite: SOW 305 or Permission of Instructor.

SOW 407 – SOCIAL WORK PRACTICE SKILLS II, GROUP WORK AND COMMUNITY ORGANIZATION (5) **(F,W,S)**

This course is designed to enable the student to develop generic Social Work practice skills in working with groups and communities. Emphasis will also be given to the present range of theoretical formulation of crisis theory and intervention. Prerequisite: SOW 307 or its equivalent.

SOW 419 – FIELD EXPERIENCE II (10) **(F,W,S)**

Supervised work experience in a social service agency or in a community development project. Coordinating seminars involve students, professors, the school's Director of Field Instruction and field instructors. Prerequisites: SOW 301, 302, 305, 306, 307, 308 or their equivalents.

SOW 429 – SENIOR PROJECT (variable) **(F,W,S)**

Under the direction of an individual from the University or community (chosen in consultation with the student's school adviser), the student will undertake to integrate an in-depth and functionally independent exploration of a problem area in which he wished to gain a degree of expertise. Majors only. Pre- or Corequisite: SOW 401.

SOW 495 – INDIVIDUAL STUDY (variable) **(F,W,S)**

Individually selected program of supervised personal study related to specific social issues. Prerequisite: Permission of Instructor.

SOW 496 – DIRECTED READINGS (variable) **(F,W,S)**

Extensive reading and analysis of appropriate literature under faculty supervision. Prerequisite: Permission of Instructor

SOW 500 – INDEPENDENT RESEARCH (variable) **(F,W,S)**

Individually selected program of supervised group or personal study related to a specific social work issue. Normally the product will be a research paper suitable for publication. Prerequisite: Permission of Instructor.

SOW 515 – TECHNIQUES OF PREVENTION AND EARLY INTERVENTION (5) **(F,W,S)**

This course has been designed to enable the student to learn about crisis intervention etiology, structure and theory so he/she may acquire some beginning practical knowledge in a sub-specialty. Prerequisite: Permission of Instructor.

HOME ECONOMICS EDUCATION

Interdisciplinary Program

Home Economics courses in the School of Health and Social Services are open to all qualified students. These courses and selected courses in other departments, such as Dietetics and Nutrition and in the School of Technology, are appropriate choices to fulfill the requirements in Home Economics Education. Students enrolled in Home Economics Education courses are majors in the School of Education.

HOME MANAGEMENT AND FAMILY ECONOMICS

HMF 306 – CONSUMER RESOURCES MANAGEMENT (3)

Evaluation of the information needed by the consumer to deal more effectively with his resources. Includes study of the sources of consumer help and information, legal ramifications of dealing in the marketplace and the application of modern management principles to improve individual or family spending decisions.

HMF 506 – HOME MANAGEMENT FOR THE EXCEPTIONAL STUDENT (5)

Designed to enable home economics teachers to work with student with learning handicaps in regular homemaking programs as well as special vocational programs. Experience provided in adapting home economics curriculum and teaching methods to the needs of the special learner. Includes survey of special equipment which can be purchased or made to facilitate the performance of household tasks. Taught in cooperation with the Occupational Therapy program.

HMF 595 – FIELD EXPERIENCE IN HOME MANAGEMENT (3-5)

Application of management principles to the home. Consideration of management decisions made by members of different ethnic groups and/or families with different life styles and the influence of these decisions on family relationships. Includes field experience working with families in the community through cooperation with local agencies. Prerequisite: HMF 306 or equivalent.

FAMILY AND CHILD DEVELOPMENT

FCD 301 – CHILD DEVELOPMENT: INFANCY AND EARLY CHILDHOOD (5)

Application of previous learnings in the social and physical sciences to systematic study of the total developmental process in the child from conception through early childhood. Emphasizes the effect of the physical and emotional environment of the home and family. Includes observational experiences. This course is particularly valuable to those persons involved in parenthood education or social work. Prerequisite: PSY 330 or equivalent.

FCD 401 – CHILD DEVELOPMENT: LATER CHILDHOOD (5)

Extension of the study of the developmental patterns of children with emphasis on physical, social and emotional maturation through adolescence. Analysis of environmental influences and appropriate education and guidance techniques. Prerequisite: FCD 301 or equivalent.

FCD 405 – THE HUMAN LIFE CYCLE (3)

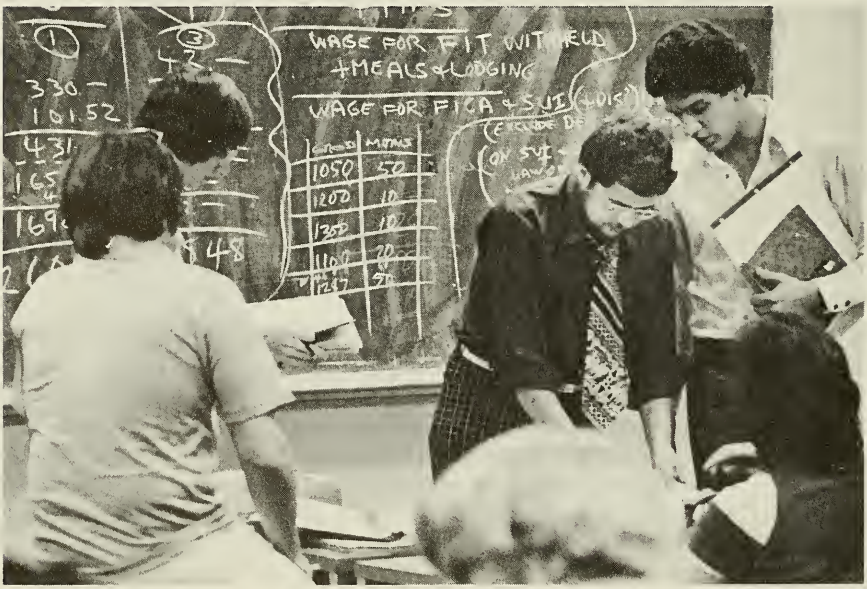
Study of the characteristics, problems, potentials and adjustments unique to various stages of the human life cycle from the point of view of the family. Includes ethnic and cultural influences on child rearing practices, adolescent acceptance, treatment of the aged, and family life patterns in general.

FCD 505 – FAMILY DEVELOPMENT (5)

The dynamics of family interaction at each stage of the human life cycle; emphasis on developmental tasks, socioeconomic and cultural influences and other family differences. Includes analysis of current issues and trends affecting the family unit.

FCD 595 – HUMAN DEVELOPMENT PRACTICUM (2-5)

Experience in observing and working with individuals in one or more phases of the human life cycle. Students may select to observe and work in a day care center, public school, nursing home, hospital or other community service agency. Prerequisites: FCD 301, 401, 405 or equivalents.



School of Hotel, Food and Travel Services

Dean Gerald W. Lattin

One may think of a career in the hospitality or "leisure industry" as just another opportunity in the business world. It is an opportunity — but a highly specialized one.

Innkeeping is many centuries old, but it is only in the last few decades that it has become highly complex in terms of the services and facilities required. Today, efficient and sophisticated management is vital, which in turn necessitates specialized training.

There are relatively few universities and colleges in the nation which provide comprehensive, advanced training in this field. Consequently, when Florida International was established, it was deemed essential that it should have a School of Hotel, Food and Travel Services.

The hospitality or leisure industry in South Florida is a continuing source of economic strength to the area and to the State. Adequately trained personnel to meet the growing demands of the industry are necessary if Florida is to continue as a leader among resort areas.

In addition to demands for qualified, professional managers in the state and national hospitality industry, international hotel management offers an ever increasing opportunity for professionally trained individuals. The School has developed a specialized program devoted to international hotel management. With the opening of our Interama Campus in 1976, we will be one of the major centers for the study of international hotel management.

The student body already reflects the international aspect with 30 foreign countries represented. A num ber of countries have set up scholar-

ship programs to send their young men and women to Florida International for professional training.

Greater Miami is one of the world's largest and most modern hotel-motel-food-and-travel complexes, providing an easily-traveled bridge between theory and practice.

The philosophy of the School dictates that each student must combine practical experience with classroom theory to meet graduation requirements. With the cooperation of industry executives, the School has created an internship program which literally utilizes the hotels, motels, restaurants, clubs, airlines, travel agencies and cruise lines as practice laboratories for the students. The advanced phase of the internship program has been designed to provide each student a structured and closely supervised management experience normally not available to a student until he has entered the industry after graduation.

From its inception, the School's primary objective has been to be the most industry oriented school in the country. To achieve such a goal, one must have continuous and expert input from the industry itself.

An active Industry Advisory Board, whose roster includes outstanding executives in the hotel, food and travel industries, works regularly with the faculty, staff and students to formulate and update a curriculum that is current, flexible, and related to the needs of the industry.

Consistent with the philosophy of merging theory and practice, the faculty possesses both professional experience in the industry and strong academic credentials. In fact, several years of executive experience is a prerequisite to membership on the faculty.

Job Opportunities

Our nation is now a service economy which means that the majority of employment opportunities will be service oriented. The food service area now ranks as the nation's fourth largest industry while hotels rank seventh. Combined, they enjoy a rank of third with projected growth to the number two position by 1975. The closely related field of travel and tourism is also in a period of rapid growth. These statistics add up to an obvious answer — **Job Opportunities.**

In the food service industry, the current demand for college trained middle and upper management personnel far exceeds the supply being trained in four-year college hotel and food service programs. The picture in hotel-motel management is very similar while the demand for college trained specialists in travel management accelerates each year.

Florida International University invites you to explore these opportunities, and offers you an educational program designed to provide you with the knowledge, concepts, skills and experience necessary to qualify for these opportunities.

Who May Apply

Any student who has completed two years of college training (60 semester hours, 90 quarter hours) may apply for admission. Full credit will be granted for both AA and AS degrees. One may enroll on either a full-time or part-time basis.

It is not necessary to have been previously enrolled in a hotel or restaurant program. Our curriculum will provide the specialized professional education to

equip the student for a career in hospitality management. For example: students with training in Liberal Arts, Business, Education, Technology, to name a few, are qualified to enroll in the program.

Graduate Program

The School of Hotel, Food and Travel Services offers a graduate program leading to the Master of Science degree in Hotel and Food Service Management. The program is designed to provide the candidate with the sophisticated techniques and skills needed for corporate and multi-unit executive positions.

The professional course offerings within the Division of Hotel and Food Services are supplemented by and closely correlated with required courses in the School of Business and Organizational Sciences. Each candidate must complete the required core of courses and a specified number of electives. He may concentrate his electives in one specific area or diversify them in areas of his or her choice.

Admission is open to holders of a baccalaureate degree from an accredited college or university. Minimum requirements for admission are those established by the Board of Regents: a combined score of 1000 on the Verbal and Quantitative Aptitude Tests of the Graduate Record Examination or a B average in all upper division work. Additional information on admission procedures may be found in the **Admission** Section of this catalog.

Candidates for the degree whose baccalaureate program was in Hotel and Restaurant Management must complete 45 quarter hours of graduate study plus the research project. Graduates of other divisions must complete an additional core of professional hotel and food service courses. The exact number will vary with the undergraduate background of the candidate but will not exceed forty (40) quarter hours including the required managerial internship program.

A maximum of 15 quarter hours of graduate credit may be transferred from other universities or other graduate programs within Florida International University.

Special Certificate Program for International Students

Students from outside the United States who do not have the necessary two years' academic credit to qualify for degree earning status may complete the courses listed under the major General Hospitality Management. A certificate of completion is awarded to all successful candidates.

Special Students

A number of persons currently employed in the hospitality field may not have the educational requirements to meet degree admission standards, but may be very interested in enrolling in certain specific courses to improve their skills and to enhance their chances for promotion. Any person currently employed in the field may register as a Special Student for a maximum of 10 credit hours per quarter.

UNDERGRADUATE PROGRAMS

GENERAL HOSPITALITY MANAGEMENT

HOTEL/MOTEL MANAGEMENT

INTERNATIONAL HOTEL MANAGEMENT

RESTAURANT AND FOOD SERVICE MANAGEMENT

TOURISM AND TRAVEL MANAGEMENT

CONDOMINIUM, COOPERATIVE AND APARTMENT MANAGEMENT

LOWER DIVISION PREPARATION:

Required Courses: Principles of Accounting is a prerequisite for taking coursework in the accounting and finance areas; however, candidates who have not taken this prerequisite will be required to take this course during their first year at the University.

Recommended Courses: Courses in accounting, economics, psychology, and public speaking are recommended but not required for entrance.

UPPER DIVISION PROGRAMS:

GENERAL HOSPITALITY MANAGEMENT MAJORS

UPPER DIVISION PROGRAM:

Accounting and Finance — 25 hours

- HRM 304 — Hospitality Accounting Information Systems
- HRM 320 — Operations Control for Hospitality Industry Management
- HRM 404 — Interpretation of Hospitality Industry Financial Statements
- HRM 408 — Financial and Legal Aspects of Real Estate Development
- HRM 485 — Profit Planning and Decision Making in the Hospitality Industry

Food and Beverage Management — 15 hours

- HRM 310 — Introductory Commercial Food Service Production
- HRM 311 — Volume Feeding Management
- HRM 318 — Basic Meat Science

Hotel and Restaurant Administration — 30 hours

- HRM 325 — Law as Related to the Hospitality Industry
- HRM 328 — Internship in Hospitality Management

HRM 329 — Advanced Internship in Hospitality Management
HRM 331 — Marketing of Hospitality Services
HRM 340 — Physical Plant Management
BUA 303 — Marketing Management

Electives 30 hours

100 hours

HOTEL/MOTEL MANAGEMENT MAJORS

UPPER DIVISION PROGRAM:

Accounting and Finance 25 hours
HRM 304 — Hospitality Accounting Information Systems
HRM 320 — Operations Control for Hospitality Industry Management
HRM 404 — Interpretation of Hospitality Industry Financial Statements
HRM 408 — Financial and Legal Aspects of Real Estate Development
HRM 485 — Profit Planning and Decision Making in the Hospitality Industry

Food and Beverage Management 20 hours
HRM 310 — Introductory Commercial Food Service Production
HRM 311 — Volume Feeding Management
HRM 316 — Restaurant Management
HRM 318 — Basic Meat Science

Administration 30 hours
HRM 325 — Law as Related to the Hospitality Industry
HRM 328 — Internship in Hospitality Management
HRM 329 — Advanced Internship in Hospitality Management
HRM 331 — Marketing of Hospitality Services
HRM 425 — Union Management Relations in the Hospitality Industry
BUA 303 — Marketing Management

Electives 25 hours

100 hours

INTERNATIONAL HOTEL MANAGEMENT MAJORS

Accounting and Finance 20 hours
HRM 304 — Hospitality Accounting Information Systems
HRM 320 — Operations Control for Hospitality Industry Management
HRM 404 — Interpretation of Hospitality Industry Financial Statements
HRM 485 — Profit Planning and Decision Making in the Hospitality Industry

Food and Beverage Management 15 hours

HRM 310 — Introductory Commercial Food Service Production
HRM 311 — Volume Feeding Management
HRM 316 — Restaurant Management

Hotel Administration 35 hours

HRM 325 — Law as Related to the Hospitality Industry
HRM 328 — Internship in Hospitality Management
HRM 329 — Advanced Internship in Hospitality Management
HRM 331 — Marketing of Hospitality Services
HRM 340 — Physical Plant Management
TTM 308 — International Travel and Tourism
BUA 303 — Marketing Management

Electives 30 hours

100 hours

RESTAURANT AND FOOD SERVICE

Accounting and Finance 20 hours

HRM 304 — Hospitality Accounting Information Systems
HRM 320 — Operations Control for Hospitality Industry Management
HRM 404 — Interpretation of Hospitality Industry Financial Statements
HRM 485 — Profit Planning and Decision Making in the Hospitality Industry

Food and Beverage Management 25 hours

HRM 310 — Introductory Commercial Food Service Production
HRM 311 — Volume Feeding Management
HRM 315 — Purchasing and Menu Planning
HRM 316 — Restaurant Management
HRM 318 — Basic Meat Science

Restaurant and Food Service Administration 35 hours

HRM 325 — Law as Related to the Hospitality Industry
HRM 328 — Internship in Hospitality Management
HRM 329 — Advanced Internship in Hospitality Management
HRM 331 — Marketing of Hospitality Services
HRM 340 — Physical Plant Management
HRM 425 — Union Management Relations in the Hospitality Industry
BUA 303 — Marketing Management

Electives 20 hours

100 hours

TOURISM AND TRAVEL MANAGEMENT MAJORS

Accounting and Finance 15 hours

HRM 485 — Profit Planning and Decision Making in the

Hospitality Industry
TTM 302 — Accounting for Tourism and Travel Management
TTM 404 — Information Systems for Travel and Tourism Management

Administration 25 hours
HRM 325 — Law as Related to the Hospitality Industry
HRM 326 — Introduction to Hospitality Management
HRM 331 — Marketing of Hospitality Services
HRM 425 — Union Management Relations in the Hospitality Industry
BUA 303 — Marketing Management

Travel and Tourism Management 35 hours
TTM 301 — Fundamentals of Tourism
TTM 303 — Retail Travel Agency Management
TTM 305 — Passenger Traffic Management
TTM 308 — International Travel and Tourism
TTM 309 — Internship in Tourism and Travel Management
TTM 310 — Advanced Internship in Travel and Tourism Management
TTM 401 — Economic Geography

Electives (Five hours must be taken in Transportation) 25 hours

100 hours

CONDOMINIUM, COOPERATIVE, APARTMENT MANAGEMENT

Accounting and Finance 20 hours
HRM 304 — Hospitality Accounting Information Systems
HRM 404 — Interpretation of Hospitality Industry Financial Statements
HRM 408 — Financial and Legal Aspects of Real Estate Development
HRM 485 — Profit Planning and Decision Making in the Hospitality Industry

Administration 30 hours
HRM 316 — Restaurant Management
HRM 325 — Law as Related to the Hospitality Industry
HRM 328 — Internship in Hospitality Management
HRM 329 — Advanced Internship in Hospitality Management
HRM 331 — Marketing of Hospitality Services
BUA 303 — Marketing Management

Property Management 15 hours
HRM 340 — Physical Plant Management
HRM 480 — Condominium, Cooperative and Apartment Management
HRM 481 — Marketing and Servicing the Resort Condominium, Cooperative and Apartment Concepts

Electives 35 hours

100 hours

UNDERGRADUATE COURSES

HRM 301 – INTRODUCTION TO MANAGEMENT ACCOUNTING FOR THE HOSPITALITY INDUSTRY (5)

Introduction and practice in accounting processes and the principles of hospitality management accounting. Prepares the student for work in advanced accounting and finance courses. Recommended for students who have not completed an introductory accounting course.

HRM 304 – HOSPITALITY ACCOUNTING INFORMATION SYSTEMS (5) **(F,W,S)**

The study of an accounting system for hospitality operations within the context of the firm's overall information system. The flow of data from source inputs through financial statement preparation, with emphasis on computer assisted processing and reporting techniques. Students use the University computer for a case project. Prerequisite: HRM 301 or equivalent.

HRM 310 – INTRODUCTORY COMMERCIAL FOOD SERVICE PRODUCTION (5) **(F,W,S)**

Provides an introduction to commercial food preparation, nutrition, product identification and storage. Course includes classroom instruction, laboratory experience, demonstration and actual experience in a working food production facility.

HRM 311 – VOLUME FEEDING MANAGEMENT (5)

The facilities of various types of large quantity food operations are utilized to provide the student with both production and managerial experience. Students will be rotated through production stations and, as managers, will be required to plan menus, supervise preparation and service, handle customer relations and keep accurate accounting records on the profit and loss phases of the operation. Staffing, merchandising and cost control procedures are integral parts of the course. Prerequisite: HRM 310 or equivalent.

HRM 312 – IMPROVING YOUR EFFECTIVENESS AS A CONSUMER (3) **(W)**

What information does the individual consumer need to deal more effectively for goods and services? Where and how is this information obtained? These questions will be dealt with in detail. Materials intended for the student's future reference will be used. The purpose of the course is to apply modern management methods to improve individual spending decisions.

HRM 314 – CLASSICAL CUISINE (5) **(F,W,S)**

A course relating to the appreciation of culinary processes and procedures utilized in a traditional kitchen of fine restaurants, hotels, and clubs. Prerequisite: HRM 310.

HRM 315 – PURCHASING AND MENU PLANNING (5) **(F,S)**

Basic information on sources, grades and standards, criteria for selection, purchasing and storage for the major foods including the development of specifications. Consideration of the menu pattern with particular emphasis on costing, pricing, and the work load placed on the production staff. Item analysis and merchandising features are emphasized.

HRM 316 – RESTAURANT MANAGEMENT (5) **(F,W,S)**

An analysis of the principal operating problems in the restaurant field. Procedures, approaches and techniques of management are explored and developed as they relate to the various categories of restaurants ranging from fast food to gourmet. Industry leaders will present successful concepts of restaurant operation.

HRM 317 – BEVERAGE MANAGEMENT (4) **(F,W,S)**

An introduction to the identification, use and service of wines and other alcoholic beverages with an in depth analysis of the various elements of beverage operations including purchasing, control, merchandising and bar management. Field trips are made to hotels and restaurants to demonstrate salient operating principles.

HRM 318 – BASIC MEAT SCIENCE (5) **(F,W,S)**

Fundamentals of meat quality, yield, utilization of cuts, availability, costing, buying, inventorying, packaging, labor and trends.

HRM 320 – OPERATIONS CONTROL FOR HOSPITALITY INDUSTRY MANAGEMENT (5) **(F,W,S)**

Study of the management tools available to control sales and expenses within hospitality operations. Detailed analysis of the responsibility centers using a cost managing approach. Case problems provide the students the opportunity to develop control systems for food and lodging organizations.

HRM 325 – LAW AS RELATED TO THE HOSPITALITY INDUSTRY (5) **(F,S)**

A basic course in hotel, motel and restaurant law. No prerequisites. The student is introduced to the fundamental laws, rules and regulations applicable to the hospitality industry. The case study approach is used to develop an awareness and understanding of the legal problems confronting the executive in his policy and decision making role.

HRM 326 – INTRODUCTION TO HOSPITALITY MANAGEMENT (2) **(F,S)**

A survey course providing an overview of the industry, its history, problems and general operating procedures. Operating executives from the fields of hotel, restaurant, food service, travel and tourism will be featured periodically.

HRM 328 – INTERNSHIP IN HOSPITALITY MANAGEMENT (5) (F,W,S)
Experience in all the major departments of an operating hotel, motel, restaurant or food service operation. Reports are required of all students.

HRM 329 – ADVANCED INTERNSHIP IN HOSPITALITY MANAGEMENT (5) (F,W,S)
Structured management experience in a specialized career of the hospitality industry. Programs include: food and beverage management, rooms division management, sales management, In-flite catering management, fast food service management and restaurant management.

HRM 330 – FUNDAMENTALS OF MANAGEMENT IN THE HOSPITALITY INDUSTRY (5) (W,S)
A basic course in general management to acquaint the student with theories and principles of organization, the tools of managerial decision-making and the management process with particular reference to the hospitality industry.

HRM 331 – MARKETING OF HOSPITALITY SERVICES (5) (F,W,S)
Application of marketing principles to business operations within the hospitality industry with particular emphasis on viewing marketing as a competitive strategy in domestic and international markets. Prerequisite: BUA 303 or equivalent.

HRM 332 – ADVERTISING FOR THE HOSPITALITY INDUSTRY (5) (F,S)
Consideration of all aspects of the advertising element of the promotion mix to execute the corporation's or tourist destination's marketing strategy. Prerequisite: HRM 331.

HRM 340 – PHYSICAL PLANT MANAGEMENT (5) (F,W,S)
A comprehensive survey of the engineering, maintenance and housekeeping functions of hotels, restaurants and institutions.

HRM 341 – HOTEL AND RESTAURANT PLANNING AND DESIGN (5) (W,S)
Considers analysis, evaluation and scheduling of the economic, technical, aesthetic and merchandising factors involved in the planning, programming and design stages of hotels and restaurants. Actual hotel and restaurant projects will serve as the basis for discussion and student project work.

HRM 404 – INTERPRETATION OF HOSPITALITY INDUSTRY FINANCIAL STATEMENTS (5) (5)
In depth study of hospitality industry financial statements including consideration of the significant relationships between the various accounts found on financial reports. The statement of changes in

financial position is studied emphasizing funds as a means of payment. Major emphasis is placed upon trend analysis, ratio analysis and comparison analysis using hospitality industry annual studies. Prerequisites: HRM 304.

HRM 405 – FUNCTIONS OF THE HOSPITALITY INDUSTRY COMPTROLLER (5) **(F)**

A specialized course designed for students desiring strong emphasis and training in the complex accounting and finance functions of hospitality industry management. Prerequisites: HRM 304, HRM 320.

HRM 406 – COMPUTER SYSTEMS FOR HOSPITALITY INDUSTRY MANAGEMENT (5) **(W)**

A seminar on computer systems and their applications within the hospitality industry. Consideration is given to an understanding of the basic computer hardware and software concepts needed for a manager to communicate with data processing personnel. Prerequisite: HRM 304.

HRM 408 – FINANCIAL AND LEGAL ASPECTS OF REAL ESTATE DEVELOPMENT (5) **(W)**

An introductory course designed to acquaint the student with the legal aspects of financing in the hospitality industry. The student is exposed to the sources and availability of hospitality financing. Financing from the viewpoint of a sole proprietorship, partnership and corporation is discussed. The course also covers the purchasing and leasing of hospitality properties, condominium and cooperative forms of ownership and franchising.

HRM 416 – SANITATION IN FOOD SERVICE OPERATION (5) **(S)**

The causes and prevention of food poisoning are stressed. Emphasis is placed on the current problems confronting the industry with recent food developments as they relate to sanitation. Curriculum developed by the National Sanitation Foundation is included.

HRM 418 – ADVANCED MEAT SCIENCE (5) **(S)**

An advanced course which considers the variable factors of meat, poultry and fish utilization. Emphasis is placed upon newer techniques in purchasing, maximizing yields and providing products in unique form. The use of TVP and other analogs are considered as are the functions of the specialized commissary type of meat processing plants. Guest speakers will be utilized and field trips to protein processing plants will be made to emphasize major points. Prerequisite: HRM 318

HRM 425 – UNION MANAGEMENT RELATION IN THE HOSPITALITY INDUSTRY (5) **(F,W,S)**

A comprehensive course covering labor legislation, union history and

the day-to-day administration of the labor contract. Emphasis is placed on collective bargaining and the business relationships between union and management.

HRM 426 – SENIOR SEMINAR IN MANAGEMENT METHODS (5) **(S)**

Class will be divided into small groups, each of which will meet regularly with the executive committee of an area hotel or restaurant. Each group will be, in reality, the junior executive committee for the property. The groups will come together periodically for analysis and discussion of their experiences, and to relate their experiences to principles of modern management.

HRM 427 – RESORT MANAGEMENT (5) **(W)**

A course designed to focus on the unique problems of resort hotel management and the application of special techniques to meet these problems.

HRM 428 – HUMAN RELATIONS IN THE HOSPITALITY FIELD (5) **(W)**

The problems faced by the supervisor and the executive in managing the human element in the hospitality field. Designed to give the student insight into the varied social and psychological factors present in any employee-employer relationship.

HRM 429 – HOSPITALITY LAW SEMINAR (5) **(S)**

New laws and their impact on the hospitality industry are examined. Students research and publish "industry alert bulletins" explaining the impact of new legislation on the hospitality industry. Pre-requisite: HRM 325.

HRM 445 – INTERIOR DESIGN AND DECOR (5) **(W)**

A basic course examining in depth the theory and application of interior design and decor in the hospitality industry. Problems related to the construction, renovation design and decor of hotels and restaurants are discussed.

HRM 480 – CONDOMINIUM, COOPERATIVE AND APARTMENT MANAGEMENT (5) **(S)**

A survey course delineating the management functions of the resort condominium complex with special emphasis on similarities and differences in comparison to hotel and resort management.

HRM 481 – MARKETING AND SERVICING THE RESORT CONDOMINIUM, COOPERATIVE AND APARTMENT CONCEPTS (5) **(W)**

A simulated case project taking each of the three types of properties from selection of site completely through all phases of sales, marketing and servicing to complete occupancy and day-to-day operation.

HRM 485 – PROFIT PLANNING AND DECISION MAKING IN THE HOSPITALITY INDUSTRY (5) **(F,W,S)**

Study of the decision making process involved in the development of profit plans through analysis of hospitality industry studies. The establishment of short and long term goals and the means to reach these goals through profit plans. Emphasis on pricing decisions, responsibility centers, variance analysis, cost-volume profit analysis, capital budgeting and tax considerations. Prerequisite: HRM 404.

HRM 500-504 – INDEPENDENT STUDIES (Variable) **(F,W,S)**

With permission from the Chairmen of the Division of Hotel and Restaurant Services, or Division of Travel Services, students may engage in independent research projects and other approved phases of independent study.

HRM 510 – SEMINAR IN HOSPITALITY INDUSTRY FINANCIAL MANAGEMENT SYSTEMS (5) **(S)**

Visits to various hospitality businesses for seminars with management team members. Lectures, demonstrations and discussion of each operation's methods and procedures with emphasis on accounting and control systems. Prerequisite: Permission of the instructor.

HRM 516 – RESTAURANT MANAGEMENT SEMINAR (5) **(S)**

By permission of instructor only. A senior course reviewing current problems and practices, developing policies and procedures and implementing same.

HRM 533 – PROBLEMS IN MARKETING (5) **(S)**

Team-work analysis and recommended solution of an actual marketing problem which has been posed by a local operator. Prerequisite: HRM 331.

HRM 535 – FOOD AND BEVERAGE MERCHANDISING (5) **(W,S)**

This is an application of marketing and advertising principles to the specific area of food and beverage for hotels and restaurants.

HRM 536 – ADVANCED FOOD SERVICE OPERATION (5) **(S)**

A senior course designed to coordinate the various management functions covered in previous courses into a comprehensive approach to profitable food service operations.

HRM 550 – ORGANIZATION AND DEVELOPMENT OF RESORT, CONDOMINIUM, COOPERATIVE AND RESIDENTIAL COMPLEXES (5) **(W)**

This seminar deals with the legal and financial aspects of real estate. Various instruments of real estate financing are examined. Students are explosed to land contracts, long and short term leases, real estate bonds, and various facets of investment trusts. Permission of the

instructor must be obtained to take the course. Prerequisite: Past course work or experience in the real estate industry.

HRM 555 – SEMINAR IN TAX PLANNING FOR THE HOSPITALITY INDUSTRY (5) **(S)**

Develops tax awareness and the ability to recognize the possible tax implications of business decisions. Tax considerations are studied for existing, expanding and planned hospitality operations. Included are compensation plans, pension and profit sharing plans, depreciation methods, acquisitions, mergers, liquidations, organization structure, accounting methods and capital gains and losses. Prerequisite: Permission of the instructor.

TTM 301 – FUNDAMENTALS OF TOURISM (5) **(F,S)**

An introduction to the broad fields of travel and tourism. Among the topics covered are cultural tourism, sociology of tourism, tourism components and supply, tourism development, the economic role of tourism, tourism demand, and the marketing of tourism.

TTM 302 – ACCOUNTING FOR TOURISM AND TRAVEL MANAGEMENT (5) **(W)**

Development and application of a uniform system of accounts and reports for travel agencies. Use of a uniform system, reports, analyses and data interpretation as tools for the travel and tourism organization manager. Prerequisite: HRM 301 or equivalent.

TTM 303 – RETAIL TRAVEL AGENCY MANAGEMENT (5) **(F)**

An introduction to the basic operations aspect of travel agency management. The application of fundamental principles and successful practices in developing a satisfied clientele.

TTM 304 – TECHNICAL AGENCY OPERATIONS (5) **(W)**

Comprehensive, detailed course covering the technical procedures, practices and systems of day-to-day travel management. The counseling, sales and personal relationships with clients, hotels, tour agencies and transportation systems.

TTM 305 – PASSENGER TRAFFIC MANAGEMENT (5) **(W)**

A survey of land, water and air transportation from an integrated, intermodal frame covering organization, operations, financing, research, regulation, economics and certain social and political factors, as well as contribution made by each mode to the development of tourism.

TTM 306 – CREATIVE TOUR PACKAGING (5) **(S)**

A thorough study of the functions of the wholesale tour operation. Includes tour operations and development, sales methods used in selling group business, costing and contracting of group business and in-depth study of the promotional aspects of tour packaging.

TTM 307 – CONVENTION AND TRADE SHOW MANAGEMENT (5) (S)
A course concentrating on organizing, arranging and operating conventions, trade shows, and concessions. Emphasis will be placed on the modes and methods of sales used in booking conventions and trade shows as well as the division of administrative responsibility in their operation.

TTM 308 – INTERNATIONAL TRAVEL AND TOURISM (5) (W,S)
An introduction to the complete international scope of travel and tourism. A brief analysis of regional framework and specific regions of the world; the interrelationship between human society and the physical environment. Tourism as a factor in economic development and its cultural and sociological factors are explored. An analysis of the international organization of tourism and the facilitation procedures required for its successful implementation are highlighted.

TTM 309 – INTERNSHIP IN TOURISM AND TRAVEL MANAGEMENT (5) (F,W,S)
Experience in all phases of travel agency management and in the travel and sales area of major airlines. Reports are required.

TTM 310 – ADVANCED INTERNSHIP IN TOURISM AND TRAVEL MANAGEMENT (5) (F,W,S)
Structured management experience with an airline, a travel agency, tour operator or cuise line. Report required.

TTM 312 – SOCIOLOGY OF LEISURE (5) (W)
An introduction to the fundamental, psychological and sociological concepts and theories as they relate to the motivation behind travel and tourism. Emphasis will be placed on the biological basis of behavior and the dynamics of personality.

GRADUATE COURSES

HRM 610 – ORGANIZATIONAL BEHAVIOR IN THE HOSPITALITY INDUSTRY (5) (F)
A survey of the concepts of organizational behavior and industrial psychology theory from both the research and practical points of view. The course is designed to assist students in making sound decisions in the hospitality area by making them sensitive to the organizational parameters which influence their decisions.

HRM 615 – RESEARCH AND STATISTICAL METHODS (5) (W)
A study of basic research methodology as applied to a variety of hospitality industry research projects. Technique for data collection, interpretation and methods of reporting are considered.

HRM 620 – FINANCIAL MANAGEMENT FOR THE HOSPITALITY INDUSTRY (5) (W)

A study of the principles of financial management and their application to the hospitality industry. Discussion and case studies are used to develop plans for meeting financial needs (short, intermediate and long term) from internal sources or capital markets. Attention is focused on capital budgeting, leasing, franchising, mergers, consolidations and current financial issues in the hospitality industry.

HRM 625 – SEMINAR IN HOSPITALITY MANAGEMENT (5) (W,S)

Attention is focused on major problems facing management in today's economy. Special emphasis is placed on the food service industry. Research of the current literature, class analysis and discussion.

HRM 630 – HOSPITALITY INDUSTRY PROJECT (5)

An individualized research project dealing with current problems in the hospitality industry. Topics and research methods must be approved by the graduate faculty before registration for the course.

HRM 635 – INTERNATIONAL HOTEL OPERATIONS (5) (F,S)

A consideration of the various environments within which the international hospitality firm operates. Organizational, financial and marketing factors are of major concern. Emphasis is placed on those problems and constraints which are uniquely different from problems of firms engaged in domestic operations of a similar nature.

MBA 699 – POLICY ANALYSIS (5)

The use of cases, guest lecturers, and gaming to integrate the analysis and measurement tools, the functional areas and public policy issues. The objective is to develop skill in broad areas of rational decision making in an administrative context of uncertainty. Prerequisite: should be taken in the last quarter of Master's Program.

HRM 640 – THE ORGANIZATION AND ITS ENVIRONMENT (5) (S)

A study of the hospitality industry as it is affected by its environment and in turn attempts to influence the various elements in this environment.

MAR 612 – MARKETING RESEARCH (5) (S)

The role of research in providing information for marketing decision making including an examination of the research process and the tools available to the researcher.

HRM 645 – HOSPITALITY INDUSTRY ORGANIZATIONAL INFORMATION SYSTEMS (5) (S)

Study of information systems in the hospitality industry. Consideration of the design and development of an information system based

on user needs. Emphasis on identification and specification of user requirements and the selection of the appropriate design. Students work on a systems development project.

HRM 650 – TAXATION FEDERAL AND STATE (5) **(W)**
A study of state and federal taxation concepts, including tax management for individuals, partnerships, and corporations engaged in the hospitality field.

HRM 655 – FEASIBILITY STUDIES FOR THE HOSPITALITY INDUSTRY (5) **(W,S)**
A survey of various theories and techniques available by which management may determine the financial feasibility of investments in the hospitality field.

HRM 660 – MARKETING MANAGEMENT (5) **(W,S)**
Team-work analysis and recommended solution of an actual marketing problem which has been posed by a local operator.

MBA 625 – MANAGERIAL DECISION THEORY (5)
This course will investigate and analyze the decision problems that managers face in business, volunteer organizations, government, and the public sector. Emphasis in the course will be placed on providing variety of decision-making experiences for the student, including the opportunity of participating in a management computer game.

HRM 665 – OPERATIONS CONTROL (5) **(F,S)**
Focus is directed to the information used in the decision process and the information flow associated with each decision process throughout hotels or restaurant enterprises.

HRM 670 – MOTIVATION AND LEADERSHIP (5) **(W)**
Motivation, perception, learning, attitude formation, incentive theory, job satisfaction with emphasis on leadership and group task performance.

HRM 675 – FOOD SERVICE RESEARCH (5) **(F,W,S)**
The planning, executing, and reporting of an individual research project dealing with significant problems in food service. Students demonstrate an understanding of research techniques through data collection, evaluation and interpretation.

HRM 680 – FOOD SERVICE SYSTEMS (5) **(S)**
Principles of system analysis applied to the food service industry. Attention is given to the organization of modern food production, preparation, and distribution systems. Case study problems require application of economic and management principles for solution.

School of Technology

Dean Robert W. Ellis, Jr.

The central role of technology in our society and its impact on the life of the individual have been well-documented by scholar and public figure alike. Much of our current way of life is the direct result of technological innovation and technology is destined to play a major role in the solution to problems which will face us in the future. The School of Technology is dedicated to providing its graduates with the technical and organizational skills, know-how, necessary to function in a modern, industrial, technical position.

The value of basic scientific education and inquiry holds a significant place in the academic programs of Florida International University. In addition, however, the School of Technology recognizes the importance of relating theory to practice and of emphasizing the application of technical concepts to problems of business and industry. Among the concerns of the School of Technology are the economic, ecological, and social implications of knowledge, as well as the acquisition of technical and leadership skills.

The academic programs of the School of Technology are planned to provide graduates who can satisfy realistic manpower needs, who can be immediately productive, and who will be prepared for challenging and rewarding careers in business and industry. There is an expanding need for technically trained individuals with an orientation toward applications, supervision, and service. The graduate technologist must have a thorough understanding and facility in

dealing with the economic and human implications of an assignment as well as its technical requirements.

The resources of the School of Technology are dedicated to fulfilling verifiable needs of society through its degree programs, its continuing education activities, programs of applied research, and community service. Its activities are designed to interest individuals with a wide variety of skills and objectives.

ACADEMIC PROGRAMS

The School of Technology was founded as a professional school which would provide programs emphasizing the interaction of technology with man's total environment. Its charge, and consequently its program orientation, are broad and comprehensive approaching technology both in management and operations-oriented programs and in those more deeply rooted in the sciences and mathematics. Because of the breadth of its programs and faculty, the School of Technology is in a unique position to provide for integration of technology with the sciences, management and social sciences which is rarely possible in a more classical technical school.

The degree programs of the School of Technology are centered in four general areas: Environmental Technology Systems, Construction, Engineering Technology, and Industrial Technology. Descriptions of these program areas precede the listings of technology courses in this catalog.

BACCALAUREATE DEGREES

The School of Technology offers two baccalaureate degree programs. The **Bachelor of Science Degree** is offered primarily to serve the upper-level transfer student from a four-year institution, or the graduate of a college parallel (Associate of Arts) program in one of the community colleges. These students generally possess a limited background in a technical discipline and may have completed a significant general education program, including satisfaction of the State's general education requirements. The Bachelor of Science program builds a technical competency upon this basic foundation at the junior and senior level.

The **Bachelor of Technology** degree is offered to meet the needs of students transferring from a community college, having earned the Associate of Science degree (or equivalent) in one of the technical disciplines. For students entering this program, the School of Technology will accept the Associate of Science degree in an appropriate field as satisfaction of the first two years (a minimum of 90 quarter hours) of university work without a course-by-course transfer evaluation. The remaining two years at Florida International University provide an increased technical sophistication in the student's area of specialization, as well as a program in the humanities, social sciences, and management, which provides for a completion of the State's general education requirements.

Both the Bachelor of Science and Bachelor of Technology degrees require a minimum of 180 quarter hours (including transfer credit) for graduation. Because of the great diversity in career objectives and academic backgrounds with which students enter the School of Technology, the exact degree requirements for each student are established individually, the primary objective

being to provide each individual with the competencies necessary to function effectively in his chosen area in the shortest possible length of time.

PROGRAM OF STUDY AND ACADEMIC ADVISEMENT

Because the School of Technology is committed to individualized curricula which take into account a student's career objectives, special skills, life experiences, and interests, academic advisement and program planning are of exceptional importance to students seeking degrees. Students who have been accepted by the University for programs in the School of Technology must make an appointment through the Dean's office for an entrance interview prior to their first class enrollment. During this initial counseling session, the student will obtain information regarding the programs available in the School of Technology will be assigned to a permanent faculty adviser in the student's area of interest, and will discuss individual needs and objectives.

Working with the faculty advisor, the student will prepare a **Program of Study** which details the requirements for a degree. When this program of study is accepted by the student and the School of Technology, it represents a contract for the degree. Students are urged to prepare a program of study as soon as possible after entering the School and must have a program approved when they become seniors (135 hours) in order to remain in good standing in the School of Technology. Students are asked to see their academic advisors at least once a quarter to review their progress toward the degree and preregister for the next quarter. Continued contact with the academic advisor and timely preparation of the program of studies are of the greatest importance to students in the School of Technology.

TRANSFER CREDIT AND CREDIT FOR LIFE EXPERIENCE

In approving the program of study for a degree, the School of Technology endeavors to take fully into account previous academic credit and applicable industrial or business experience which might assist the student in obtaining the necessary competencies of his field of study. Although each student is considered as an individual case, certain basic guidelines are applied to transfer and life experience credit.

1. A student transferring from four year (Bachelor's Degree granting) institutions may transfer up to 135 quarter hours of applicable credit toward a Bachelor's degree in the School of Technology.
2. A student transferring from a two year institution normally has an Associate Degree and transfers 90 quarter hours toward the minimum 180 hour F.I.U. Bachelors Degree. In certain limited cases where the Associate degree requires in excess of 90 quarter hours the school may accept up to 100 hours if the excess credit is specifically applicable to the students Technology Major Program. Application of transfer credit is a part of the preparation of the program of studies.
3. The school will consider awarding credit for life experience of three basic types:

A. Compressed courses or training programs such as college seminars, short courses, company seminars, company Schools, union apprenticeship schools, and military technical schools.
B. Regular courses taken from technical institutes or other institutions where normal transfer credit is not applicable.
C. Work experience wherein the student gains applicable skills and knowledge.

Such credit may be awarded through examination, evaluation of work products, or evaluation of programs. Normally, the School of Technology limits credit for life experience to a maximum of 25 quarter credits toward the degree. Students wishing consideration for such credit should discuss it with their advisors.

ACADEMIC APPEALS

The School of Technology endeavors to provide an atmosphere in which the special needs of each student are served. In the event that a student has difficulty in a class, or curriculum matter, this should be brought to the attention of the instructor or adviser involved immediately. If resolution is not possible in this way, the student should call the matter to the attention of the Director of the Division responsible. If the problem still cannot be resolved, the student may appeal to the Dean of the School of Technology by reducing the grievance to writing and requesting review at this level. The Dean may, on option, hear an appeal or refer the matter for consideration to an Appeals Committee appointed for that purpose.

SPECIAL PROGRAMS

The School of Technology is actively engaged in a number of special programs as a service to the community and the University. Among these activities are the support of the Technical/Vocational Education and Home Economics programs in technology-related service coursework. The School is developing a comprehensive program in Communications to serve its own majors as well as the interests of students majoring in the College of Arts and Sciences and the other professional Schools. The Division of Construction hosts the International Association for Housing Science, an organization with membership from more than twenty nations dedicated to improving housing technology and production, as well as studying the inter-disciplinary aspects of housing. The Division of Environmental Technology Systems has developed and supports a Potomological Laboratory on the Miami River for environmental research activities and to provide assistance to the community in the preservation of that critical natural resource. The School of Technology provides numerous special courses and training institutes in cooperation with the Division of University Services and Continuing Education and participates, in cooperation with the School of Independent Studies, in the External Degree Program. A number of courses are offered for non-technology majors dealing with the impact of technology, innovation, and creative activity. Technology faculty are actively

engaged with business and industry in seeking the solution to technical and operational problems. They are participating in a variety of applied research projects in such areas as alternative energy sources, low cost housing, transportation, solid waste disposal, and water resources.

GENERAL DEGREE REQUIREMENT

In arriving at the program of studies for a bachelor's degree in the School of Technology, students must provide for the following general requirements:

1. Students must attain a minimum of 180 credits including transfer and life experience. Some students need more than the minimum program to obtain the competencies of their chosen field.
2. At least 45 credits must be acquired in the School of Technology.
3. All students receiving Bachelor's Degrees must satisfy the State's general education requirements either by certification at the community college or through a combination of transfer credit, CLEP, and courses at F.I.U. These requirements are:

Mathematics	(4 cr.)
English Composition	(9 cr.)
Humanities	(9 cr.)
Social Sciences	(9 cr.)
Natural Sciences	(9 cr.)
Electives in these areas	(14 cr.)
Total	54 cr.

4. Students must satisfy the particular requirements of their own major.

CONSTRUCTION DIVISION

The significance of the construction industry in our economy requires that its needs be considered in an urban university. Construction is important not only from an economic viewpoint, but also because of its major role in shaping the environment. At Florida International, this program provides students with a comprehensive education in the technology, science, and management of construction.

The Construction Division has five distinct areas of study. They are:

1. **Civil Engineering Technology**
2. **Construction Management**
3. **Construction Engineering Technology**
4. **Housing Science**
5. **Interior Design**

The program of study in each area must reflect certain fundamental competencies or core courses, as well as electives to provide an interdisciplinary approach which is basic to the philosophy of the Division.

1. CIVIL ENGINEERING TECHNOLOGY OPTION

The Civil Engineering Technology Option offers one of the broadest fields of study in the School of Technology. It emphasizes a versatile treatment of technical courses in areas such as field surveying, fundamentals of construction, material behavior and usage, structural analysis and design, engineering feasibility and developmental studies, hydraulic systems, transportation systems, foundation design, architectural concepts or innovations, environmental and urban systems and financial decisions and management.

LOWER DIVISION PREPARATION:

Students admitted to the program should have completed the following courses or should have demonstrated competency in these areas of study:

Mathematics through Calculus
English (9)
Humanities (9)
Social Science (9)
Physical Science, including Physics (9)
Surveying
Construction Materials
Drawing or Drafting
Statics

Students whose backgrounds do not include all of the above may be admitted with the understanding that they will acquire the necessary competency while pursuing their upper division program of studies.

UPPER DIVISION PROGRAM:

A student, to graduate with a Bachelor's degree in the Civil Engineering Technology Option, should demonstrate appropriate competency in or complete the following courses.

CSN 305 (3)	CSN 407 (5)
CSN 322 (3)	CSN 451 (5)
CSN 326 (5)	CSN 455 (5)
CSN 331 (3)	TEY 350 (5)
CSN 352 (3)	TEY 370 (5)
CSN 353 (3)	MAS 311 (5)
CSN 354 (5)	TRT 300 (5)
CSN 357 (3)	WQT 331 (5)
CSN 370 (3)	CSN 320 (5)
or CSN 375 (5)	

2. CONSTRUCTION MANAGEMENT OPTION

The Construction Management Option consists of courses from various disciplines related to construction industry. The emphasis is placed on technical management essentials such as cost estimating, project field management and operations, methods and equipment techniques, codes and specifications, contract specifications, contract administration, job planning, scheduling,

inspections, site development, construction materials, construction economics, cost control, labor relations, and safety.

LOWER DIVISION PREPARATION:

Students admitted to the program should have completed the following courses or should have demonstrated competency in these areas of study:

Algebra and trigonometry
English (9)
Humanities (9)
Social Science (9)
Physical Science (9)
Surveying
Construction Materials
Drawing or Drafting
Statics

Students whose backgrounds do not include all of the above may be admitted with the understanding that they will acquire the necessary competency while pursuing their upper division program of studies.

UPPER DIVISION PROGRAM:

A student, to graduate with a Bachelor's degree in the Contruction Management Option, should demonstrate appropriate competency in or complete the following courses.

CSN 306 (3)	CSN 400 or CSN 402
CSN 320 (5)	or CSN 404 (3)
CSN 321 (3)	CSN 407 (5)
CSN 322 (3)	CSN 426 (3)
CSN 326 (5)	CSN 429 (5)
CSN 330 (3)	TEY 350 (5)
CSN 331 (3)	TEY 450 (5)
CSN 332 (3)	ITE 450 (3)

3. CONSTRUCTION ENGINEERING TECHNOLOGY OPTION

The Construction Engineering Technology Option offers a generalized treatment of the total construction process. The emphasis is placed on technical courses in fundamentals of construction, management of personnel and equipment, inspections, mechanical and structural design, construction economy, construction materials, construction methods, system analysis, conceptual study and operations research skills.

LOWER DIVISION PREPARATION:

Students admitted to the program should have completed the following courses or should have demonstrated competency in these areas of study:

Mathematics through Calculus
English (9)
Humanities (9)
Social Science (9)

Physical Science, including Physics (9)
Surveying
Construction Materials
Drawing or Drafting
Statics

Students whose backgrounds do not include all of the above may be admitted with the understanding that they will acquire the necessary competency while pursuing their upper division program of studies.

UPPER DIVISION PROGRAM:

A student, to graduate with a Bachelor's degree in the Construction Engineering Technology Option, should demonstrate appropriate competency in or complete the following courses.

CSN 305	(3)	CSN 353	(3)
CSN 306	(3)	CSN 357	(3)
CSN 320	(5)	CSN 407	(5)
CSN 321	(3)	CSN 450	(5)
CSN 322	(3)	CSN 457	(5)
CSN 326	(5)	TEY 350	(5)
CSN 328	(3)	MAS 311	(5)
CSN 330	(3)	MET 360	(3)
CSN 352	(3)		

4. HOUSING SCIENCE OPTION

"Housing" has been rather unorganized and non-scientific through the ages. There is an urgent need to be concerned with every aspect of housing planning and production. It concentrates on courses which will familiarize the student with various scientific and non-scientific topics related to housing. Theoretical as well as user-oriented courses prepare the student to be quickly accepted by the housing industry.

LOWER DIVISION PREPARATION:

Students admitted to the program should have completed the following courses or should have demonstrated competency in these areas:

Mathematics
English (9)
Humanities (9)
Social Science (9)
Physical Science (9)
Surveying
Construction Materials

Students whose backgrounds do not include all of the above may be admitted with the understanding that the student will acquire the necessary competency during his stay at Florida International.

UPPER DIVISION PROGRAM:

To receive a Bachelor's degree with a Housing Science Option, a student has to complete or demonstrate competency in the following courses.

CSN	306 (3)	CSN	404 (3)
CSN	320 (5)	CSN	407 (5)
CSN	322 (3)	CSN	428 (3)
CSN	326 (5)	CSN	457 (5)
CSN	328 (3)	CSN	470 (3)
CSN	350 (5)	CSN	471 (3)
CSN	372 (3)	MET	360 (3)

5. INTERIOR DESIGN OPTION

Interior design develops the ability to integrate design including basic design elements, space relationships, materials, structural considerations and the total environment.

LOWER DIVISION PREPARATION:

This program is designed for graduates of the community college with an Associate degree and transfer students from four-year institutions. Each student's individual academic program or competency in the area of study is personally evaluated, and a program of studies will be advised.

UPPER DIVISION PROGRAM:

A Bachelor of Science or Bachelor of Technology degree program will be developed to demonstrate appropriate competency of the student for the 90 quarter hour minimum upper division requirements.

ENVIRONMENTAL TECHNOLOGY SYSTEMS DIVISION

The Division of Environmental Technology Systems is dedicated to improving the quality of life through technology. There is a great need for individuals qualified to plan, design, maintain, manage and operate in technology without causing injury to man or damaging his environment. The School of Technology offers programs of study leading to careers in Environmental Technology Systems.

The Division contains two major options.

The **Environmental Technology Option**—concerned with the technological aspects of air, land and water ecosystems, and environmental protection; and the **Urban Systems Option**—dealing with the topics of transportation and urban planning.

Programs of study in both of these options will provide the student with a strong background which will offer not only a comprehensive overview of environmental and urban systems but will also prepare the individual for employment in any one of many rewarding areas. Topics treated include:

ENVIRONMENTAL TECHNOLOGY OPTION
- Air Pollution
- Aquatic Technology

Environmental Management
Marine Technology
Noise Pollution Abatement
Solid Waste Disposal
Water Resources
Water Treatment Technology
Wastewater Technology

URBAN SYSTEMS OPTION
Traffic Engineering Technology
Urban Planning Technology
Transportation Planning Technology

The student's program of study may be designed to integrate course work from more than one discipline. Students who have had courses in environmental and/or urban systems areas may incorporate cognate work from business administration, economics, sociology, natural, physical or social sciences. In addition, courses offered by the Engineering Technology, Industrial Technology and Construction Divisions in the School of Technology provide a means of broadening the student's background in specific technical areas.

Each student's program of study takes full account of what has been previously learned academically and in industry. It also takes account of career objectives (including the needs of prospective employers), as criteria for planning a program.

Graduates of each program must, however, possess basic competencies fundamental to their major area. Therefore, courses will be offered to provide the opportunity of gaining those proficiencies the student has not previously acquired collegiately or occupationally.

A major in the Division of Environmental Technology Systems consists of 45 quarter hours of course work offered by the Division. Of this amount, 25 quarter hours must be in one specific area (air, environmental protection, planning, transportation or water) while the other 20 hours must be obtained from other courses in the Division.

INDUSTRIAL TECHNOLOGY DIVISION

The individual who wishes to acquire technical expertise for a given industrial environment in concert with a strong management orientation, will be served by this program. By drawing heavily on resources available within the School of Technology, the College of Arts and Sciences, and the other professional Schools, this program will provide the basis for specialized training not feasible in a more structured program.

Industrial Technology is defined as a profession in which an understanding of the technical terminology of industry provides a capability of performing technical liaison between management, engineer, scientist, technician and craftsman. The work of the industrial technologist has some characteristics of engineering technology and many of the qualities associated with management. Not a problem solver, the technologist will possess the "know how" of engineering to be able to supervise and manage the efforts of other employees in the utilization of materials and machines for producing usable products.

The objectives of the educational process are:

1. To develop an understanding of multifaceted technical aspect of industry.
2. To become familiar with technical terminology commonly used in industry.
3. To develop supervisory skill involving specialized knowledge, analytical ability and the use of supervisory tools and techniques.
4. To appreciate the cultural and human skills involved in the ability to effectively exercise the responsibilities of group leadership.
5. To effect individual judgment, initiative, and resourcefulness in the use of techniques and procedures.
6. To establish an effective rapport with scientists, managers, engineers, workmen and customers.
7. To improve the communication skills, both oral and written, to an acceptable level for industry.

LOWER DIVISION PREPARATION:

Students in the Industrial Technology Division may participate in one of several options and will have completed an Associate of Science degree or equivalent. Each option is designed as a two-year add-on to previous study and results in the awarding of a Bachelor's degree.

UPPER DIVISION PROGRAM:

The **Industrial Operations** option is an individualized program of study designed to provide the academic preparation for entry into industry at the mid-management level. Such a program consists of a balanced blend of task oriented management techniques and the necessary technical coursework to insure applicability to a specific industry or discipline.

The **Industrial Safety** option is a program of study whose purpose is to establish competencies in accident prevention, training and control. The enactment of the Occupational Safety and Health Act (OSHA) has stimulated an increasing need for qualified individuals who are technically competent and also have an in-depth understanding of those laws which govern industrial safety.

The **Manufacturing** option provides the educational background for those students whose career objectives include the planning and control of manufacturing processes, the design of production tools and equipment, the supervision of product handling and the design and planning of facilities. This two-year add-on program also includes the mid-management preparation necessary for supervisory responsibility in the manufacturing industry.

A concentration in **Communications** including Electronic Journalism and Media is offered for Industrial Technology majors, The School is cooperating with the College of Arts and Sciences in providing a study course for those in other fields with an interest in the communications industry.

REQUIREMENTS

To graduate from the Industrial Technology program at Florida International University a student must establish a plan of study, **individualized** to meet his specific career goals.

ENGINEERING TECHNOLOGY DIVISION

Students who wish to enter technical positions which emphasize the

application of engineering concepts in areas such as production, installation, operation, administration, service and sales will be served by the program in Engineering Technology.

Engineering Technology is defined as a profession in which an understanding of the applied engineering, mathematical, and scientific principles provides a capability of solving state-of-the-art engineering problems. With a detailed knowledge of the relevant practices, procedures and codes, a graduate of an engineering technology program will transfer from concept to reality a design or system formulated by a practicing engineer or scientist.

The educational process will provide:

1. Proficiency in the use of the disciplined and objective scientific method.
2. The capability of analyzing mathematical problems through calculus.
3. The application of the processes, equipment, procedures, methods, and techniques commonly used to perform the lab work.
4. An extensive knowledge of the field including the application of the underlying physical sciences as they relate to engineering and industrial processing.
5. Individual judgment, initiative, and resourcefulness in the use of techniques, procedures, handbook information and recorded scientific data.
6. Capability of establishing an effective rapport with scientists, managers, engineers, technicians, workmen, or customers.
7. Communication skills that include the ability to record, analyze, interpret, and transmit facts and ideas orally, graphically, or in writing with complete objectivity; and to continuously locate and master new information pertinent to technology.

1. ELECTRONIC ENGINEERING TECHNOLOGY OPTION

LOWER DIVISION PREPARATION:

This two-year, upper division Electronic Engineering Technology program is designed for graduates of an approved Electrical or Electronics two year program. Included are options in Electrical Power, Process Control and Electronic Communications.

Students admitted to the program are expected to demonstrate competency in these areas:

Math (Calculus)	Network Analysis
Physics	Transistor Circuits
Circuits (DC AC)	Pulse and Digital Circuits
Semiconductor Devices	Boolean Algebra

Students whose competency does not include all of the above may be admitted with deficiencies if the curriculum advisor feels that the students total background provides a reasonable chance for the prospective student to succeed in the program.

UPPER DIVISION PROGRAM:

To graduate from the Electrical Engineering Technology program at Florida International University a student should demonstrate appropriate competency or complete the following courses:

EET	316	Advanced Electrical Networks I	5 quarter hours
EET	416	Advanced Electrical Networks II	
EET	428	Integrated Circuits Analysis and Design	5 quarter hours
EET	430	Integrated Circuits Design Applications	5 quarter hours
EET	498	Group Projects	5 quarter hours
—	—	Technical Specialization	20 quarter hours
—	—	Free Electives	45 quarter hours

TECHNICAL SPECIALIZATION

Electrical Power	Process Control	Electronic Communications	Electronics
EET 314 (5)	EET 320 (5)	EET 340 (5)	Courses selected in consort with academic advisor based on student's career objectives.
EET 318 (5)	EET 420 (5)	EET 342 (5)	
EET 415 (5)	EET 422 (5)	EET 440 (5)	
Elective (5)	Elective (5)	Elective (5)	

2. COMPUTER ENGINEERING TECHNOLOGY OPTION

LOWER DIVISION PREPARATION:

This two-year, upper division Computer Technology program is designed for graduates of an approved Computer Technology Science two year program or equivalent.

Students admitted to the program are expected to have completed the following courses or demonstrate competency in these areas:

Math (Calculus)	Network Analysis
Physics	Transistor Circuits
Circuits (DC AC)	Pulse and Digital Circuits
Semiconductor Devices	Boolean Algebra

Students whose competency does not include all of the above may be admitted with deficiencies if the curriculum advisor feels that the students total background provides a reasonable chance for the prospective student to succeed in the program.

UPPER DIVISION PROGRAM:

To graduate from the Computer Engineering Technology program at Florida International University, a student should demonstrate appropriate competency or complete the following courses as part of his 90 quarter hour requirement:

COT	300	Logic Design	5 quarter hours
COT	304	Advanced Computer Systems	5 quarter hours
COT	308	Computer Systems Planning	5 quarter hours
COT	310	Telemetry and Telecommunications	5 quarter hours
ENT	498	Group Projects	5 quarter hours
—	—	Technology Electives	20 quarter hours
—	—	Free Electives	45 quarter hours

3. MECHANICAL ENGINEERING TECHNOLOGY OPTION

LOWER DIVISION PREPARATION:

This two-year upper division program is designed for graduates of an approved Associate degree program who have majored in one of the specialties associated with Mechanical Engineering Technology, such as Air Conditioning, Refrigeration, Mechanical Design, etc. Students admitted to the program are expected to be able to demonstrate competency in College Algebra, Trigonometric Functions, Engineering Drafting, and Physics. In addition, each student should have completed 24 quarter hours (18 semester hours) of credit in a technical specialty area, or demonstrate appropriate competencies.

Students whose competence does not include all of the above may be admitted if the curriculum advisor feels that the student's overall preparation indicates a reasonable chance of success in the program.

PROGRAM COURSE PROGRAM

To graduate from the Mechanical Engineering Technology program at Florida International University a student should demonstrate appropriate competency in or complete the following courses:

MAS	321	Calculus	5 quarter hrs
MAS	311	Introduction to Computers I (Fortran)	5 quarter hrs
CSN	350	Mechanics of Materials	5 quarter hrs
TEY	325	Manufacturing Processes	5 quarter hrs
TEY	326	Survey of Electronics	5 quarter hrs
TEY	350	Industrial Financial Decisions I	5 quarter hrs
TEY	450	Industrial Financial Decisions II	5 quarter hrs
ITE	371	Industrial Operations	5 quarter hrs
MET	362	Mechanical Design	5 quarter hrs
MET	—	Electives in Area of Specialty	20 quarter hrs
—	—	Free Electives	25 quarter hrs

GENERAL TECHNOLOGY

TEY 300 – TECHNOLOGY AND FUTURE SOCIETY (5)

The impact of social, economic, and political factors on technology, and vice-versa. Technology forecasting and assessment. Plans and policy for technology-based enterprises. Plans and policy as examples of technology (scientific management, systems analysis, operations research, etc.) Technology transfer; creativity and innovations; technology utilization.

TEY 302 – INVENTING THE FUTURE (5)

Elementary and advanced creativity techniques. Inventing social futures. Forecasting and planning. Futures research, criteria of social, technological economic and political feasibility. Diagnosing and overcoming resistance to change.

TEY 304 – ENGINEERING DRAWING COMMUNICATION (3)

Understanding the communication of Engineering concepts by

sketches and drawings. Includes reading and fast hand sketching of multi-view drawings; fastening devices; welding and other symbols; wiring, piping, fluid power and other schematics.

TEY 320 – TECHNOLOGY FOR OCCUPATIONAL THERAPY (5)
The basic properties of woods and metals and the techniques used by occupational therapists in planning a project based on a hypothetical patient's problem.

TEY 325 – MANUFACTURING PROCESSES I (5)
An introduction into the processes used to convert raw materials into finished products. Includes information on casting, forging, machining, and forming. This course is intended for students outside of the mechanical manufacturing area.

TEY 326 – SURVEY OF ELECTRONICS (5)
The basic principles of AC and DC circuits, solid state devices, and electric motors. The course is intended for students outside of the Electrical Electronic Computer specialties. (Includes lab)

TEY 350 – INDUSTRIAL FINANCIAL DECISIONS I (5)
The accounting process and use of financial techniques and data in planning, controlling and coordinating industrial activities.

TEY 352 – GOVERNMENT AND LAW IN INDUSTRY (3)
An overview of regulations, subsidies, sponsorship; contracts, patent labor and real estate law.

TEY 355 – TECHNICAL COMMUNICATIONS (3)
The goal of this course is to give the student an understanding of the role of graphic and written language in the conception and communication of technical ideas. The course is flexible in order to accommodate different backgrounds in the students. Basic graphical methods including multiview and isometric drawings; flow diagrams; charts, graphs and diagrams; graphical presentation of data; use of resource materials in the library, and standards for written reports are discussed.

TEY 370 – INTRODUCTION TO ENVIRONMENTAL TECHNOLOGY SYSTEMS (5)
This course is designed for non-majors as an integrated approach to the role of technological man in the biosphere. Emphasis is placed on methods for the environment quality improvement of land, air, water, transportation, and planning systems.

TEY 400 – PLANS, PRIORITIES, AND POLICIES (5)
A non-technical course in how to set reasonable personal, organizational, and society goals, and how to plan for their achievement. For students in all the Schools and Divisions of the University.

TEY 401 – TECHNOLOGY: A SOCIAL FORCE (5)
A critical analysis of the effect of technology and other rational methods on social, economic, and political behavior, and the effect of social needs on technology. For students with an interest in social impact of technology.

TEY 403 – FUTURES RESEARCH (5)
Forecasting and creating alternative futures. Social, technological and political forecasting. Prerequisite: Consent of Instructor

TEY 450 – INDUSTRIAL FINANCIAL DECISIONS II (5)
The study of the cost of production in terms of break-even and least cost alternatives including present and future costs when related to the time value of money, budgeting, labor and overhead, production cost control and the role of the supervisor and the industrial engineering technologist to cost control. Prerequisite: TEY 350 or equivalent.

TEY 495 – INDEPENDENT SUTDY (1-5)
Specialized intensive study in an area of special interest to the student. Consent of faculty Instructor required.

TEY 497 – SPECIAL TOPICS (1-5)
For a group of students who wish an intensive study of a topic not offered in the University. Consent of faculty Instructor required.

TEY 502 – POLICY PROBLEMS OF TECHNOLOGY (5)
A detailed examination of how the speed and direction of technological change have been determined in the past, and how it might be controlled in the future. Includes an introduction to "policy science" and technology assessment. For students with an interest in the social control of technology.

CONSTRUCTION DIVISION

CSN 300 – SURVEYING (5)
Measurement of distances, directions and angles, using the tape, level, compass, and transit. Computation of areas and traverses, lines and grades.

CSN 301 – CONSTRUCTION MATERIALS (5)
A study of the origin, production and uses of construction materials, such as concrete, steel, aluminum, plastics, wood, brick, and stone.

CSN 305 – ADVANCED SURVEYING I (3)
Computations and field procedures for earthwork and horizontal and vertical curves. Application in establishing horizontal and vertical control in boundary determinations, construction sites, and

mapping. Topographical mapping and principles of photogrammetry. Prerequisite: CSN 300 or equivalent

CSN 306 – CONSTRUCTION METHODS AND EQUIPMENT (3)
Methods, procedures, and equipment used in residential, commercial, and heavy construction. Equipping the construction plant. Production value analysis. Work effectiveness studies.

CSN 307 – ADVANCED SURVEYING II (3)
Engineering Astronomy, triangulation control, urban surveying and platting, legal aspects of surveying, public land surveys and land description. Precision surveying with emphasis on errors. Prerequisite: CSN 305

CSN 320 – CONSTRUCTION COST ESTIMATING (5)
Principles and theories of estimating, classification of work, and quantity survey techniques providing knowledge and skill as applied to various types of construction projects.

CSN 321 – MANAGEMENT OF CONSTRUCTION COSTS (3)
Business policy and problems as they relate to construction companies. Capital requirements, bonding, personnel, legal, insurance, and accounting. Construction company organization. Field records. Scheduled vs. actual job expenditures. Cost forecasting. Development of unit prices from field data. Prerequisite: CSN 320.

CSN 322 – CONSTRUCTION PLANNING AND SCHEDULING (3)
The application of the Critical Path Method and Program Evaluation Review Technique to construction planning and scheduling for construction projects. Example problems related to actual construction cases. Prerequisite: CSN 321.

CSN 325 – COST ESTIMATING BY COMPUTER (3)
Computer based cost analysis and conceptual cost estimation. Cost standard synthesis, learning curves models for pricing and control. Functions involving the use of the computer during planning, designing, and construction phases of complex projects. Prerequisite: CSN 322.

CSN 326 – CODES AND SPECIFICATIONS (5)
A study of codes required by local, county, and state levels. The writing and reading of specifications. Bidding procedures. The relationships between the contractor, engineers-architects, owners, subcontractors, and material suppliers.

CSN 328 – BUILDING SYSTEMS (3)
An introduction to the problems relating to the theory of prespective and the development of building construction. The investigation of problems relating to the development of the

sequential steps of construction of commercial, industrial or public buildings and the selection and placement of various facilities for optimum utilization of the building.

CSN 329 – HOUSING AND CULTURE (3)
Study of housing in historical and modern perspective with study of space considerations, construction and furnishings in respect to needs of family members, demands of ethnic groups and economic resources. Survey of latest housing trends.

CSN 330 – MANAGEMENT OF CONSTRUCTION PROJECTS (3)
Organization and management theory for construction. Elements of leadership and human supervision. Contractor organization, office operations, project management, labor relations, and safety requirements. Prerequisite: CSN 322 and CSN 326 or equivalent

CSN 331 – ECONOMIC PLANNING FOR CONSTRUCTION (3)
Nature of construction costs, funding sources and arrangements, capital requirements, bonding, insurance, risk and contingency evaluation. Cash flow theory, depreciation and tax theory, variable costs, and profitability analysis. Basis of economic choice in construction decisions. Prerequisite: CSN 320

CSN 332 – LEGAL ASPECTS OF CONSTRUCTION (3)
Legal and business aspects of engineering contracts and specifications in the construction industry. Analysis, study of precedents and application of contract clauses, including changes, changed conditions, termination, disputes, payments, risk and insurance, inspection, liquidated damages, and technical requirements. Prerequisite: CSN 326 or equivalent

CSN 340 – SURVEY OF INTERIOR DESIGN (3)
Application of basic design and management principles to the planning of the spaces and furnishings for the home. Emphasis will be on the evaluation of existing floor plans and decorating schemes, but the student will have the opportunity to do some original design work.

CSN 350 – MECHANICS OF MATERIALS (5)
Applications of the principles of mechanics to engineering problems of equilibrium, strength, and stiffness. Topics include equilibrium of forces, stress, strain, torsion, beams, and columns. Prerequisite: Consent of Instructor.

CSN 351 – STATICS (3)
Study of forces acting on bodies, including coplanar and non-coplanar forces, concurrent and non-concurrent forces, friction forces, and hydrostatic forces. Prerequisite: Consent of Instructor.

CSN 352 – STRENGTH OF MATERIALS (3)
Axial, torsional, shear, bending, and combined stress and strain analysis; mechanical properties and applications for static, dynamic, fatigue, and creep conditions. Prerequisite: CSN 351 or equivalent.

CSN 353 – DETERMINATE STRUCTURAL ANALYSIS (3)
Analysis of statically determinate structural systems by analytical methods. Reactions; shear, axial, and moment diagrams; truss analysis; influence lines; moving loads. Prerequisite: CSN 351.

CSN 354 – SOIL MECHANICS AND FOUNDATIONS (5)
Identification and properties of soils with emphasis on laboratory and field testing. Behavior of soils relating to design and construction of structures and pavements. Construction of shallow and deep foundations, excavating and bracing, and construction site dewatering. Prerequisite: CSN 350 or CSN 352.

CSN 357 – INDETERMINATE STRUCTURAL ANALYSIS (3)
Analysis of statically indeterminate structural systems by analytical methods. Development and use of theorems of moment area, conjugate beam, elastic weights, virtual work, slope deflection, and moment distribution. Moving loads and influence lines. Prerequisite: CSN 353.

CSN 370 – ARCHITECTURAL DESIGN (5)
An examination of architectural design ideas and construction involving structural systems, materials, design standards and codes in a manner they can be utilized effectively. Original ideas encouraged.

CSN 372 – INTERDISCIPLINARY ASPECTS OF HOUSING (3)
Recognition and definition of all factors which affect the planning, financing, and construction of a large housing project. The operations and responsibilities of a multidisciplinary team dealing with the decision process. Prerequisite: Consent of instructor.

CSN 373 – INTERIOR DESIGN (3)
Developing a more integrated study of design to use in furnishing interiors using theoretical and technical aspects of the field. Encouraging originality.

CSN 375 – ARCHITECTURAL CONCEPTS AND CONSTRUCTION (3)
Specialized study in an area of interest to the student where architectural design is used with new methods of construction due to advancing technological developments. Drawings and quantity surveys. Prerequisite: Consent of instructor.

CSN 380 – EXTERIOR DESIGN (3)
An equal balance of honest and varied design expressing an outer

expression of interior living. Presentation drawings and quantity surveys.

CSN 400 – ROAD CONSTRUCTION (3)
A study of construction procedures and equipment utilized in road and highway construction. Familiarization with standard methods required for various governmental agencies. Layout and inspection procedures. Prerequisite: CSN 301 and CSN 305 or equivalent.

CSN 402 – HEAVY CONSTRUCTION (3)
A study of construction procedures and equipment utilized in constructing heavy engineered service systems. Typical projects are airports, irrigation, rapid transit systems, harbor, pipelines, dams tunnels, bridges, canals, mass earthwork, sewer and water systems, and other heavy public works. Prerequisite: CSN 300 and CSN 306.

CSN 404 – BUILDING CONSTRUCTION (3)
A study of the types of construction and materials used for various sections of buildings. Equipment and methods of building construction. Inspection procedures for equality building construction in accordance to specifications, codes, standards, and agencies' recommendations. Prerequisite: CSN 306 and CSN 326 or equivalent.

CSN 405 – FOUNDATIONS CONSTRUCTION (3)
Sub-surface construction theory and practice for foundations of buildings and engineered facilities. Underpinning, piling dry and wet excavating, dewatering, cofferdams, caissons, soil stabilization are examples of typical topics. Structural erection techniques and inspection procedures are studied. Prerequisite: CSN 354.

CSN 407 – SITE DEVELOPMENT (5)
Fundamentals of the art of site planning; physical, economic, social and governmental constraints affecting development; zoning; land use controls; subdivision layout; modular design; site characteristics (soil, geology, topography), drainage, access. Design and construction techniques. Prerequisite: Consent of instructor.

CSN 413 – INTRODUCTION TO GEOMETRIC DESIGN OF HIGHWAYS (5)
Route surveys by ground and aerial methods-reconnaissance, preliminary and location surveys; geometric properties of highway curves; spiral theory; design controls for both vertical and horizontal alignments.

CSN 426 – CONSTRUCTION LABOR LAW (3)
A study of the common law and statutory law affecting union-management relations in construction, with emphasis on current labor legislation including such areas as the National Labor Relations Act and amendments, the Railway Labor Act, wage and hour legislation, workmen's compensation, unemployment com-

pensation, and social security laws. Occupational safety and health hazards associated with construction labor. Prerequisite: CSN 326.

CSN 428 – SYSTEMS APPROACH FOR HOUSING PLANNING (3)

Discussions of basic concepts of systems analysis and systems approach to the field of housing planning. The advantages of systems approach. Case studies. Prerequisite: CSN 372 or equivalent.

CSN 429 – QUALITY CONTROL IN CONSTRUCTION (5)

Quality control as governed by the job inspector, contractor superintendent, architect-engineer, building commissioner, and governmental agencies and requirements.

CSN 430 – HOME FURNISHING AND EQUIPMENT (5)

Principles involved in the construction, selection, operation and care of household furnishings and equipment and their relation to the well-being of the family.

CSN 450 – STRUCTURAL SYSTEMS (5)

A general study of the methods of structural systems; such as beams, columns, rigid frames, arches, trusses, floors, enclosure systems, and various foundation configurations. The limitations of using various structural materials for the systems will be discussed. Prerequisite: CSN 353.

CSN 452 – STEEL DESIGN (5)

The analysis and design of structural elements and connections for buildings, bridges, and specialized structures utilizing structural steel. Both elastic and plastic designs are considered. Prerequisite: CSN 353.

CSN 452 – TIMBER DESIGN (3)

The analysis and design of modern wood structures. Effect of plant origin and physical structure of wood on its mechanical strength; fasteners and their significance in design. Prerequisite: CSN 353.

CSN 455 – REINFORCED CONCRETE DESIGN (5)

The analysis and design of reinforced concrete beams, columns, slabs, retaining walls, and footings. Both the working and ultimate strength design methods will be discussed with primary emphasis corresponding to recent ACI Building Code. Prerequisite: CSN 357.

CSN 457 – STRUCTURAL DESIGN (5)

Elements of structural design in steel, reinforced concrete, and timber with design specifications per AISC, ACI and NDS. Introduction to prestressed concrete design. Loadings and structural elements commonly encountered in construction will be used for analysis and design. Prerequisite: CSN 357.

CSN 470 – HOUSING AND ENVIRONMENT (3)
The impact of housing planning and construction on a community and environment. The necessity of total planning to protect the environment. Public participation in housing planning. Economics vs. ecology. Prerequisite: CSN 372.

CSN 471 – BASIC UTILITIES AND HOUSING (3)
The study of the importance of basic utilities such as roads, sewer and water supply systems in the housing planning and construction. A relative cost analysis; health problems; and sociological effects of lack of basic utilities. Innovative concepts to incorporate basic utilities to all housing projects in developing countries. Prerequisite: Consent of instructor.

CSN 479 – ARCHITECTURAL INNOVATIONS FOR CONSTRUCTION (5)
Integrated study of design, basic design elements and principles of design in awareness of effect on architectural design. Presentation drawings, plans and quantity surveys. Prerequisite: Consent of instructor.

CSN 480 – ARCHITECTURAL LANDSCAPING (3)
Application of basic design principles, materials, and plantings in relation to site development and building designs. Original designs encouraged. Prerequisite: CSN 380.

CSN 495 – INDEPENDENT STUDY (1-5)
Specialized intensive study in an area of special interest to the student. Consent of instructor is required.

CSN 497 – SPECIAL TOPICS (1-5)
For a group of students who wish an intensive study of a topic not offered in the University. Consent of faculty supervisor is required.

CSN 512 – PAVEMENT DESIGN (5)
Analysis and design of sub-base, base and pavement of a roadway. Discussions of flexible pavement and rigid pavement as structural units. Boussinesq's approach, Westergaard's theory. Beams on Elastic Foundations. Prerequisite: CSN 354 or consent of instructor.

CSN 513 – ADVANCED GEOMETRIC DESIGN OF HIGHWAYS (5)
Parameters governing the geometric design of highways; curve superelevation; widening on highway curves; elements of intersection design; design of interchanges; use of AASHO design guidelines; a design project required. Prerequisite: CSN 305 or equivalent.

CSN 556 – PRESTRESSED CONCRETE DESIGN (3)
The behavior of steel and concrete under sustained load. Analysis and design of pre-tensioned and post-tensioned reinforced concrete

members and using these members into the integral structure. Prerequisite: CSN 455 or equivalent.

CSN 557 – ADVANCED STRUCTURAL DESIGN (5)
The design of structural systems to formalize the student's knowledge of the behavior of individual components into a final integrated structure. Continuous span and simple span highway bridges, culverts, retaining walls, rigid frames, multi-storied buildings, and similar type problems of interest to the student. Prerequisite: CSN 451 and CSN 455.

CSN 564 – SURVEY OF COMPUTER PROGRAMS FOR CONSTRUCTION PLANNING AND CONTROL (5)
The discussion of various available computer programs related to different construction operations. Applications of some of these programs. Prerequisite: Consent of the instructor.

CSN 570 – INNOVATIONS IN BUILDING TECHNOLOGY (3)
Possible changes made or to be made with advancing technological developments affecting the building industry. Prerequisite: Consent of instructor.

CSN 572 – HOUSING FOR DEVELOPING COUNTRIES (3)
Problems faced by the developing countries in housing their population. Political, economic, social and technical considerations in decision process. Prerequisite: CSN 372 or equivalent.

CSN 575 – FINITE ELEMENT ANALYSIS (5)
The basic concepts of finite element method and its applications to technical analysis problems. Discussion of available computer programs. Prerequisite: CSN 357 or CSN 562 or equivalent.

CSN 595 – INDEPENDENT STUDY (1-5)
Specialized intensive advanced study in an area of special interest to the student. Consent of instructor is required.

CSN 597 – SPECIAL TOPICS (1-5)
For a group of students who wish an intensive study of an advanced topic not offered in the University. Consent of faculty supervisor is required.

ENVIRONMENTAL TECHNOLOGY SYSTEMS DIVISION

AIR QUALITY TECHNOLOGY COURSES

AQT 351 – AIR RESOURCES (5)
This course is concerned with providing the student with a basic training in the physical and chemical nature of air pollution, the laws

governing the behavior of gases and aerosols, the relation of major sources of contaminants to atmospheric concentrations found to exist in urban and industrial community environments and the fundamental principles of technological control methods.

AQT 352 – AIR SAMPLING AND ANALYSIS (5)
A comprehensive source sampling program with emphasis on site survey, source testing and calculation. The topics of analytical procedures, design of source sampling trains, and sampling monitors are stressed. Prerequisite: AQT 351.

AQT 353 – AIR POLLUTION CONTROL SYSTEMS (5)
Introduction to the operation of the various types of air pollution control devices. Theory as well as practice is emphasized. Prerequisite: AQT 352.

AQT 444 – NOISE (5)
Fundamentals of sound. Measurement and analysis of sound and noise. Survey of measurement systems and techniques. The sources and control of noise. Materials for noise control. Vibration fundamentals.

AQT 460 – AIR-WATER INTERFACE ECOLOGY (5)
An environmental evaluation of the relationship between the atmosphere and the water surface in natural aquatic eco-systems.

AQT 462 – AIR POLLUTION ADMINISTRATION (5)
Emphasis is placed on the utilization of information systems, cost benefit analysis and budget control principles used to interpret Federal requirements for state and local governments.

ENVIRONMENTAL TECHNOLOGY SYSTEMS DIVISION

ENVIRONMENTAL PROTECTION COURSES

EPR 320 – ENVIRONMENTAL HEALTH (5)
The effects of environmental pollutants on man's health and the quality of life.

EPR 350 – INDUSTRIAL AND ENVIRONMENTAL TOXICOLOGY (5)
Basic aspects of toxicology. Effects, assessment and control of physical and chemical toxic agents in the environment. Industrial hygiene and safety practices. Occupational diseases. The quality of life in the urban environment. The disposal of toxic wastes and the impact on the environment. The concept of food chains and biological magnification. Toxic residuals in the environment.

EPR 375 – ENVIRONMENTAL MANAGEMENT (5)
The wise use of land and water for parks and recreational areas. The

environmental design and need for green spaces. Ecologically safe methods for the control of vegetation and insects are emphasized.

EPR 430 – SOLID WASTE MANAGEMENT (5)
A study of the technological aspects of collection, transport and disposal of municipal, industrial and agricultural solid wastes. Methods of disposal; biochemical, ecological and energetic considerations. Recovery and recycle of wastes.

EPR 440 – VECTOR AND PEST CONTROL (5)
Occurrence and control of communicable diseases. The role of vectors and their control. Sanitation of food production, processing, and distribution. Population and resources: the challenge to produce more food. The Green Revolution. Pest control: chemical and biological agents. Diversity and stability of ecosystems. Pesticides and risks in their use.

EPR 445 – ENVIRONMENTAL INSTRUMENTATION (5)
Theory of and laboratory practice in the optical, electronic, electric, and mechanical methods used for measuring and recording environmental variables. Introduction to telemetry and computer data processing.

EPR 516 – ENVIRONMENTAL PLANNING (5)
Ecological principles necessary to preserve a quality environment are presented by means of planning policies, processes and environmental indicators. Emphasis will be placed on the impact of growth on environmental quality.

EPR 582 – ENVIRONMENTAL MODELING (5)
Evaluation of regional resources. Environmental stresses and considerations in regional systems. System analysis in environmental management and its relation to decision-making. Modeling of ecological systems.

ENVIRONMENTAL TECHNOLOGY SYSTEMS DIVISION

ENVIRONMENTAL TECHNOLOGY SYSTEMS COURSES

ETS 481 – RECENT CONCEPTS IN ENVIRONMENTAL TECHNOLOGY SYSTEMS (5)
An in-depth analysis of a specific current topic or problem relating to environmental technology or urban systems.

ETS 495 – INDEPENDENT STUDY (1-5)
Individual research studies available to academically qualified students. Consent of instructor required.

ETS 497 – SPECIAL TOPICS (1-5)
Specific aspects of environmental technology or urban systems not available through formal course study. Open to academically qualified students. Consent of instructor required.

ETS 595 – INDEPENDENT STUDY (1-5)
Individual research studies available to academically qualified students of graduate status.

ETS 597 – SPECIAL TOPICS (1-5)
Specific aspects of environmental technology and urban systems not available through formal course study. Open to academically qualified graduates only.

ENVIRONMENTAL TECHNOLOGY SYSTEMS DIVISION

TRANSPORTATION TECHNOLOGY COURSES

TRT 300 – INTRODUCTION TO TRANSPORTATION SYSTEMS (5)
Role of transportation in urban and regional development; elements of the transportation system; historical development of the U.S. transportation system; characteristics and design considerations of various modes.

TRT 304 – THE AUTOMOBILE AS A TRANSPORTATION MODE (5)
Impact of the automobile on modern society; urban sprawl; air pollution; congestion; energy crisis; the highway lobby; the Highway Trust Fund; discussion of alternatives to the automobile.

TRT 402 – TRAFFIC ENGINEERING TECHNOLOGY (5)
Fundamentals of traffic; characteristics of the roadway, the vehicle and the human elements in the traffic stream; traffic studies; capacity analysis; parking studies; accident analysis.

TRT 412 – TRAFFIC CONTROL DEVICES (5)
Traffic signs and markings; introduction to the new international signs; traffic signalization; design and location of signals; maintenance of signals; traffic laws and regulation.

TRT 420 – TRANSPORTATION PLANNING (5)
Principles of transportation planning; origin-destination studies; methodology used in generating transportation plans; techniques for predicting and evaluating the consequences of various alternatives; transportation planning for the Dade County region.

TRT 500 – ADVANCED TRANSPORTATION SYSTEMS (5)
Examination of innovative transportation systems technology;

technical feasibility; system attributes; energy requirements; marketability of proposed systems; probable effect on modal choice behavior; evaluation of possible applications to the Greater Miami area.

TRT 504 – TRANSPORTATION MODELING (5)
Analytical evaluation of trip generation; gravity models and other distribution techniques, assignment and modal split; mathematical modeling of each of the above phases; shortest path algorithm; critical review of existing models.

TRT 512 – URBAN MASS TRANSIT PLANNING (5)
The mass transportation problem; demand analysis and projection; marketing urban mass transit; existing urban mass transit systems in the U.S.; techniques for planning mass transit systems; governmental regulation and subsidies to the transportation sector.

ENVIRONMENTAL TECHNOLOGY SYSTEMS DIVISION

URBAN PLANNING TECHNOLOGY COURSES

UPT 316 – URBAN PLANNING CONCEPTS (5)
Planning fundamentals; objectives and scope of urban planning; theories of land use patterns; population studies; cohort survival technique; employment studies; economic studies; estimating demand for various land usage.

UPT 410 – PLANNING IMPLEMENTATION (5)
Planning and the public; governmental agencies and their role; preparing a zoning ordinance; land subdivision; urban renewal.

UPT 416 – EVOLUTION OF URBAN SETTLEMENT (5)
Cultural and technological factors underlying evolution of urban patterns layout of human settlements; urban form and architecture; consideration of forces causing changes in the human environment.

UPT 418 – ANALYSIS OF TECHNOLOGICAL SYSTEMS (5)
Fundamental concepts of system analysis; types of systems; input-output relationship; positive and negative feedback control; generation of system alternatives; tradeoff and sensitivity analysis; elementary optimization techniques.

UPT 505/URB 505 – URBAN DESIGN (5)
Relationship of cities and space, design for urban living; architectural and other aesthetic considerations; human welfare and urban structure; planning methods in private and public sectors; performance evaluation.

UPT 511/URB 511 – URBAN LAND USE PLANNING (5)

Elements of the general land use plan; location and space requirements; the use of models in planning; development of the land use plan; policy plan; implementation.

UPT 518 – URBAN SYSTEM ANALYSIS (5)

The urban area as a complex system; modeling the urban growth processes; statistical decision-making games; modeling and simulation; cost effectiveness; application of the theory; a systemwide view of the Miami area.

UPT 615/URB 615 – URBAN AND REGIONAL ANALYSIS (5)

Theories of urban and regional growth; economics of location and agglomeration; urban and regional social accounting; economic base analysis, input output models, gravity models, linear programming. Urban structure and performance.

ENVIRONMENTAL TECHNOLOGY SYSTEMS DIVISION

WATER QUALITY TECHNOLOGY COURSES

WQT 330 – WATER RESOURCES (5)

Study of the hydrologic cycle; ground and surface water occurrence and quality. Sanitary protection of groundwater supplies. Stream sanitation: sources of pollution and self-purification of polluted waters. Water quality management. Multi-purpose uses of water and water reuse. Determination of population, municipal, industrial, and agricultural water requirements.

WQT 331 – APPLIED HYDRAULICS (5)

A course to provide background in basic hydraulic technology. The fundamental theorems are studied first then applied to the collection and distribution of water and to the collection and treatment of wastewaters.

WQT 332 – WATER SUPPLY TECHNOLOGY (5)

Rural and urban water supplies and distribution systems. Regional planning and development. Water treatment processes and disinfection. Laboratory experience with bacteriological, physical, and chemical parameters in water treatment.

WQT 365 – AQUATIC ENVIRONMENTAL TECHNOLOGY I (5)

Environmental assessment of lotic or running water ecosystems with particular emphasis on the technological reclamation of these systems. The Miami River and the canals of Dade County will serve as the laboratories for this course.

WQT 366 – AQUATIC ENVIRONMENTAL TECHNOLOGY II (5)

Environmental assessment of lentic or standing water ecosystems

with particular emphasis on the technological reclamation of these systems. Prerequisite: WQT 365.

WQT 367 – AQUATIC ENVIRONMENTAL TECHNOLOGY III (5)
Inclusive analysis of a specific aquatic environment with the specific objective of demonstrating technological means to control eutrophication and to rejuvenate the ecosystem. Prerequisites: WQT 365 and WQT 366.

WQT 368 – MARINE TECHNOLOGY (5)
Fundamental concepts of the biological, chemical, and physical dynamics of ocean systems.

WQT 450 – WASTEWATER PROCESSES I (5)
Theory of and laboratory practice in the biological processes used in wastewater treatment. Pertinent biochemical principles. Aerobic and anaerobic treatment. Design, operation, and control of unit operations and processes. Standard tests for the examination of wastewater.

WQT 451 – WASTEWATER PROCESSES II (5)
A continuation of 450, Wastewater Processes I. Theory and laboratory practice of the physico-chemical processes in wastewater treatment including coagulation, flocculation, sedimentation, flotation, and disinfection. Advanced treatment methods. Standard tests for the examination of wastewater. Prerequisite: WQT 450.

WQT 452 – WASTEWATER TREATMENT TECHNOLOGY (5)
Analysis and design of conventional and advanced treatment plants for domestic, municipal and industrial wastewaters. Joint industrial-municipal collection of wastewaters and sewerage service charges. The regional approach to wastewater treatment.

WQT 468 – MARINE PRODUCTS (5)
A survey of the commercial items which may be harvested from the Ocean.

WQT 590 – INDUSTRIAL WASTEWATER TREATMENT (5)
Characteristics and composition of industrial wastewaters. Sampling techniques and analysis. Treatment methods and disposal. Water conservation and reuse. Product recovery. Joint industrial-municipal collection and treatment of wastewaters. Sewerage service charges. Case studies.

INDUSTRIAL TECHNOLOGY DIVISION

CLOTHING AND TEXTILES COURSES

It is required that all Home Economics Education Majors have a minimum of 15 quarter hours (state requirement = 13.5 quarter hours) in the field of

Clothing and Textiles including at least one clothing construction course and one textile course.

CLT 335 – BASIC CLOTHING CONSTRUCTION (5)
Basic course developing skills in machine usage and construction techniques including their application in construction of apparel for personal use.

CLT 336 – BASIC PATTERN SELECTION, DESIGN, AND ALTERATION (3)
Stresses importance of pattern and fabric selection for individual figure types while exploring basic principles of pattern design and alterations. Prerequisite: CLT 335 or equivalent.

CLT 337 – BASIC TEXTILES (3)
Overview of the physical and chemical properties of textiles and their components as they relate to care, performance and consumer satisfaction.

CLT 435 – ADVANCED CLOTHING CONSTRUCTION (5)
Additional experience stressing judgement in selecting patterns and fabrics, pattern alteration, and application of principles and techniques of clothing construction. Prerequisite: CLT 335 or equivalent

CLT 436 – FASHION AND CULTURE (3)
Study of historical, socioeconomic and ethnic influences on fashion design. Includes analysis of current fashion influences.

CLT 437 – FASHION PRODUCTION AND DISTRIBUTION (3)
Study of apparel industries with supervised observation of various aspects of production and distribution.

CLT 438 – TAILORING (5)
Application of custom tailoring techniques through the construction of a suit or coat with emphasis on fabric selection and pattern alteration. Prerequisite: CLT 435 or equivalent.

CLT 444 – CREATIVE TEXTILES (3)
A laboratory course designed for experimenting with designing and constructing fabrics, such as weaving, macrame, knitting, crocheting, creative stitchery, tie dying, batik. History of the techniques explored. Prerequisite: CLT 337

CLT 495 – INDEPENDENT STUDY (1-5)
Specialized intensive study in an area of special interest to the student. Consent of faculty instructor required.

CLT 497 – SPECIAL TOPICS (1-5)
For a group of students who wish an intensive study of a topic not offered in the University. Consent of faculty supervisor and division director is required.

CLT 535 – NEW TRENDS IN CLOTHING CONSTRUCTION (3)
A study of the latest techniques for sewing today's fabrics including

some factory methods. Prerequisite CLT 435 or equivalent.

CLT 536 – TODAY'S TEXTILES (3)
A study of today's textiles fabrics, and the chemical and physical properties peculiar to all fibers.

CLT 537 – TEXTILES AND CLOTHING SEMINAR (1-5)
By permission of instructor only.

INDUSTRIAL TECHNOLOGY DIVISION

COMMUNICATIONS MEDIA COURSES*

COM 300 – PERSPECTIVES IN THE COMMUNICATIONS MEDIA (5)
Defines the mission of today's journalists in terms of the historical heritage of the Communications Media. Implications for the contemporary situation are traced through the development of the press in America by study of certain key court decisions. Contrasts historical and current relationships between the media and government, special interest groups, labor unions, and the public. Examines the adjustment of newspaper journalism to the electronics media.

COM 320 – FEATURE WRITING (5)
The fact story: researched and written in depth. Planning, constructing, writing and marketing non-fiction articles for general and special interest magazines and newspaper feature pages. Includes the query letter; preparing photos and illustrations to accompany the article.

COM 321 – INTERVIEWING TECHNIQUES (5)
The interview as a source of information and as a story. Preparing and conducting interviews, including planning of questions, note-taking and transcription, writing and editing. The Symposium interview; the press conference; the personality sketch.

COM 350 – EDITING AND MAKE-UP (5)
Practical skills involved in putting out a newspaper: editing copy for clarity, facts and brevity; headline writing; page make-up; copy reading and proof reading marks. Attention will be given to editing for T.V. and radio news and features.

COM 370 – MEDIUM OF ELECTRONIC JOURNALISM (5)
A comparative analysis of the present and future trends in educational and public broadcasting including: CATV, CCTV, open broadcast, and satellite communication networks, video news-shorts using a variety of Media.

COM 372 – INTRODUCTION TO STUDIOGRAPHICS (5)
Introduction to the role of the graphic artist in print media and television. Topics cover basic print reproduction processes, various

* Developed in conjunction with the College of Arts and Sciences.

forms of media and equipment used by the graphic artist, basic styles of typography, uses of photography in graphics, television graphics. Emphasis will be on preparation of AV graphic materials and graphics for television. Field observations will be included.

COM 374 – RADIO PRODUCTION (5)

This course emphasizes basic principles of radio broadcasting, with practice in scripting, performance, directing and editing.

COM 380 – NEWS REPORTING (5)

To teach the skills necessary to recognize and produce a good news or features story; experience with actual interviews, discussions with successful writers and journalists, and critique of student work. News judgement and identification of proper sources will be introduced.

COM 420 – SPECIALIZED WRITING AND REPORTING (5)

Developing and writing specialized features, background material and interpretative articles for newspapers and periodicals. Includes areas such as science and medicine, education, entertainment and travel, sports, international affairs and current issues. Writing for professional and technical journals; interpreting esoteric material for the mass audience.

COM 421 – JOURNALISM RESEARCH (5)

A practical course teaching writers how to locate sources of background material, and apply the techniques of gathering and evaluating facts. Covers organizing primary and secondary resource material, separating fact from opinion, taking notes, constructing a formal outline. Using library reference materials, including the periodical index, the technical journal, document catalog, government publications, specialized libraries, audio-visual materials, electronic data sources and computer print-outs.

COM 470 – COMMUNICATIONS TECHNOLOGY (5)

This course provides instruction in the preparation of multimedia split screen presentations using multiple-channel programmers. Individual or group multi-media projects will be required.

COM 480 – REPORTING OF PUBLIC AFFAIRS (5)

To teach the student how to cover government activities for newspapers, television, and radio. Aspects of the budget office, county manager's office, major's office, and commissioner's office, courts and planning and zoning will be outlined. Guest speakers from government offices will appear.

COM 497 – SPECIAL TOPICS (1-5)

For a group of students who wish an intensive study of a topic not offered in the University. Consent of faculty supervisor and division director is required.

INDUSTRIAL TECHNOLOGY DIVISION

INDUSTRIAL ARTS TECHNOLOGY COURSES

IAT 305 – CONSTRUCTION TECHNOLOGY (5)
Laboratory experiences of basic production, management and personnel practices as they relate to construction systems and projects.

IAT 306 – MANUFACTURING TECHNOLOGY (5)
Laboratory experiences of basic manufacturing, management, personnel, and production practices as they relate to products and processes. Safety procedures.

IAT 307 – REPROGRAPHICS (5)
Laboratory experiences in the theory and practice of communicating through graphics; includes experiences in copywriting, editing, image generation, image assembly, photo conversion, image carrier preparation, transfer, and finishing procedures.

IAT 405 – CONSTRUCTION PROCESSES (5)
Laboratory experiences in the principles and practices of the construction trades includes concrete and plaster trades, electrical, plumbing, carpentry, iron work, sheetmetal, roof and finishing trades in setting foundations, erecting structures, installing mechanical and electrical systems, applying surface material and finishing.

IAT 406 – INDUSTRIAL RESEARCH AND DEVELOPMENT (5)
Laboratory experiences in formulating, researching, designing, and developing prototypes of constructed and manufactured products and processes. Prerequisite: IAT 305 or IAT 306.

IAT 407 – PLANOGRAPHIC PROCESSES (5)
Laboratory experiences in the theory and practice of offset lithography. Emphasis will be directed toward skill development in design and copy preparation, process photography, stripping, platemaking, and duplicator operation.

IAT 408 – PHOTOGRAPHICS (5)
Laboratory experiences in the theory and practice of photography as used in visual communications. Develops proficiencies in camera work, developing, and printing.

IAT 409 – MATERIALS OF INDUSTRY (5)
Laboratory experiences in the theory and practice of characteristics of materials of industry. Includes test and measurements of stress, strain, torsion, tensile strength, fatigue and hardness of metals, wood, fabrics, ceramics and synthetics.

IAT 415 – DRAFTING I (5)

Laboratory experiences in the principles and practices of idea development and expression through free hand sketching and conventional instrument drafting. A beginning drafting course for students with no prior drafting experience.

IAT 416 – DRAFTING II (5)

Laboratory experiences in the principles and practices of product design and communication. Includes conventions, projections, and dimensions and problems of making working drawings for product production. Prerequisite: IAT 415 or equivalent.

IAT 417 – MECHANICAL POWER SYSTEMS I (5)

Laboratory experiences in the theory of operation and related maintenance of single and multiple cylinder reciprocating engines. Includes introductory experience with mechanical, fluid, and pneumatic power systems.

IAT 418 – ELECTRICAL/ELECTRONIC POWER SYSTEMS (5)

A basic study of the fundamentals of electricity and electronics as they apply to land, air, and water vehicle starting, generating, and control systems. Laboratory experience with commercial electrical power transmission and utilization.

IAT 419 – MATERIALS PROCESSING (5)

Laboratory experiences in the principles and practices of separating, forming, and combining techniques to produce components, subassemblies, assemblies and finished products. Includes a variety of materials, equipment and fabrication techniques.

IAT 420 – ARCHITECTURAL DRAFTING (5)

Laboratory experiences in designing structures, developing working drawings and specifications for constructed projects. Includes development of site, foundation, floor, elevations, plumbing plans, and specifications.

IAT 422 – MECHANICAL POWER SYSTEMS II (5)

Advanced laboratory experiences with reciprocating engines. Introductory study of turbine, diesel, and rotary engines. Introductory study of aircraft structures and basic aero dynamics. Prerequisite IAT 417 or equivalent.

IAT 495 – INDEPENDENT STUDY (1-5)

Specialized intensive study in an area of special interest to the student. Consent of faculty instructor required.

IAT 497 – SPECIAL TOPICS (1-5)

For a group of students who wish an intensive study of a topic not offered in the University. Consent of faculty supervisor and Division Director required.

INDUSTRIAL TECHNOLOGY DIVISION

INDUSTRIAL OPERATIONS COURSES

ITE 312 – AUTOMATION (5)
A study of the technology of automation including the economics of management policies for the major industrial changes influencing automation planning.

ITE 320 – PRODUCTION CONTROL (5)
Introduction to production control concepts including information input, output formats and feedback mechanisms needed for cost effective management control. Prerequisite: ITE 371 or equivalent.

ITE 321 – PRODUCTION PLANNING (5)
Planning and coordinating manufacturing facilities for the most economical methods, machines, operations and materials for the manufacture of a product. Prerequisite: ITE 320 or equivalent.

ITE 322 – EXPEDITING (5)
Techniques used to optimize the flow of materials into, through and out of the manufacturing plant. Includes analysis of time vs. money trade offs. Prerequisite: ITE 321 or equivalent.

ITE 323 – METHOD IMPROVEMENT (5)
Methods engineering and measurement of human work systems. Techniques for operation analysis, work measurement and work sampling. Predetermined motion-time systems and standard date development are explored. Prerequisite: ITE 371 or equivalent.

ITE 324 – QUALITY CONTROL (5)
The economic and physical factors involved in quality control planning from the product design stage to the ultimate utilization by the user.

ITE 325 – INSPECTION TECHNIQUES (5)
Basic theory and application of precision tools and instruments for measuring length angle, surface finish, parallelism and shape. Includes selection of "inprocess" gaging.

ITE 326 – PLANT LAYOUT (5)
To effect the coordination of the physical plant facilities to combine the men, materials and machines necessary for operation in the most economical arrangement. Prerequisite: ITE 321 or equivalent.

ITE 340 – FIRE PROTECTION TECHNOLOGY (5)
An examination of the codes, specifications and standards used in the design of fire suppression systems, emergency communications systems and hazard detection systems.

ITE 350 – OSHA I (3)

Introduces occupational safety and health hazards associated with mechanical systems, materials handling, electrical systems, chemical processes and illustrated controls through engineering revision, safeguarding and personal protective equipment. Emphasis placed on recognition, evaluation and control of occupational safety and health hazards. Written reports required.

ITE 351 – CONSTRUCTION SAFETY (3)

Introduces occupational safety hazards associated with the construction industry. Emphasis placed on recognition, evaluation and control of safety hazards particularly as they relate to OSHA.

ITE 371 – INDUSTRIAL OPERATIONS (5)

The industrial structure is studied to see how the various areas and functions are related to each other. The material covered should give the student an overview of the operations of the organization and an understanding of the fundamental principles of management which lead toward effective coordination and control.

ITE 374 – INDUSTRIAL INFORMATION SYSTEMS (5)

Introduction to information systems used in industry. Includes coding, input and retrieval of information.

ITE 400 – MATERIAL HANDLING (5)

A survey of materials handling elements, the unit load, packaging, bulk handling, the economics of materials handling, improving existing handling methods, justification for handling equipment, special handling techniques, and the management of the materials handling divisions in the industrial organization.

ITE 430 – BASIC OCCUPATIONAL SAFETY (3)

Introduction to occupational safety and health; current social and legislative requirements. Standards, codes, and regulations; casual insurance; case studies and relevance to local industry emphasized.

ITE 440 – FIRE PROTECTION SYSTEMS (5)

A systems approach to fire protection design including the examination of the problem areas associated with manufacturing, process, laboratory and transportation systems. Prerequisite or Corequisite: ITE 340 or equivalent.

ITE 441 – COMBUSTION CASE STUDIES (5)

Case studies of various types of fires including probable cause and preventative measures that should have avoided the problem. Prerequisite or Corequisite: ITE 340 or equivalent.

ITE 450 – OSHA II (3)

A continuation of OSHA I.

ITE 471 – PERSONNEL RELATIONS (5)

A study of the functions of personnel relations. Topics covered include determining job requirements, manpower requirements, selection, interviewing and counseling tests, training, morale and motivation, job evaluation, wage classification, merit rating, and union-management relations.

ITE 473 – DRAFTING SUPERVISION (5)

Cost estimation, work flow procedures, and drafting supervision; interrelationship between the drafting function and other facets of the engineering organizational structure. Prerequisite or Corequisite: A.S. in Drafting Technology or equivalent.

ITE 474 – INDUSTRIAL SUPERVISION (5)

Overview of the supervisors functions, responsibilities, and over-all role in management in industry.

ITE 476 – MAINTENANCE PLANNING (5)

A study of the maintenance function in the industrial setting including the planning and implementation of preventative maintenance techniques.

ITE 480 – VALUE ANALYSIS (5)

The function nature and definition of value analysis including who does it and how it is done. Explains in detail the six phases of value analysis.

ITE 495 – INDEPENDENT STUDY (1-5)

Specialized intensive study in an area of special interest to the student. Consent of faculty instructor required.

ITE 497 – SPECIAL TOPICS (1-5)

For a group of students who wish an intensive study of a topic not offered in the University. Consent of faculty supervisor and division director is required.

ITE 595 – INDEPENDENT STUDY (1-5)

For a group of students who wish an intensive study of a topic not offered in the University. Consent of faculty supervisor and division director is required.

ENGINEERING TECHNOLOGY DIVISION

ENT 495 – INDEPENDENT STUDY (1-5)

Specialized intensive study in an area of special interest to the student. Consent of faculty instructor required.

ENT 497 – SPECIAL TOPICS (1-5)

For a group of students who wish an intensive study of a topic not

offered in the University. Consent of faculty supervisor and division director is required.

ENT 498 – GROUP PROJECTS (5)
A group of students working under the direction of an instructor or team of instructors will design, fabricate and assemble a technical system.

ENGINEERING TECHNOLOGY DIVISION

COMPUTER ENGINEERING TECHNOLOGY COURSES

COT 300 – LOGIC DESIGN (5)
Karnaugh maps and Quine McCluskey reduction techniques, study of analytical and empirical tools necessary to design with digital IC's; combinational logic, and sequential circuits are considered. Prerequisite: Boolean Algebra.

COT 302 – COMPUTER HARDWARE FUNDAMENTALS (5)
Analysis of computer elements and systems composed of flip-flops registers, counters, adders, etc.; study of a basic arithmetic unit, core memory system, control unit, and organization of these units into a system. (includes lab) (same as MAS 314)

COT 304 – ADVANCED COMPUTER SYSTEMS (5)
Study of hardware computer systems and components in a laboratory environment, arithmetic and memory system, complete mini-computer, digital communications system, digital modem, input-output interface.

COT 306 – COMPUTER DIAGNOSTICS AND CONTROL (5)
Introduction to computer program control of industrial and data processing systems with an emphasis on applying systems diagnostic routines in determining computer malfunctions. Prerequisite: COT 302 and MAS 311 or equivalent.

COT 308 – COMPUTER SYSTEMS PLANNING (5)
Planning and design of computer formulation of corporate requirements and corresponding hardware configuration. Comparison and evaluation of equipment, installation considerations and implementation. Prerequisite: COT 302 and MAS 311 or equivalent.

COT 310 – TELEMETRY AND TELECOMMUNICATIONS (5)
Theory and operation of telemetry including techniques of data handling, equipment in telemetry, transmission media, channels and data-sets. (includes lab) Prerequisite: COT 302 or equivalent.

COT 404 – ADVANCED LOGIC DESIGN (5)
Analysis, design, and optimization of combinational systems, and

interative networks; study of digital systems such as multiplexers, D/A and A/D converters, digital multimeters, modems, arithmetic circuits, etc. (includes lab) Prerequisite: COT 300.

COT 406 – COMPUTER PERIPHERALS AND INTERFACING (5)
Introduction to digital I/O equipment to include disk and drum storage, reel and cassette magnetic tape units, AD and DA converters, paper tape devices, teletypewriters, card readers. (includes lab) Prerequisite: MAS 311 and COT 304 or equivalent.

ENGINEERING TECHNOLOGY DIVISION

ELECTRONICS ENGINEERING TECHNOLOGY COURSES

EET 314 – ELECTRICAL SYSTEMS IN CONSTRUCTION (3)
A survey of electrical and lighting requirements for residential and commercial buildings. Emphasis on estimating circuits, power requirements, layout constraints, etc.

EET 316 – ADVANCED CIRCUIT ANALYSIS (5)
The objective of this course is to present an advanced circuit analysis for a modern engineering technology program. Study of phasors, loop and node analysis, network theorems, transients, linear models, and an introduction to the Laplace transform. Prerequisite or Corequisite: MAS 302 or equivalent.

EET 318 – ELECTRIC MOTOR CONTROLS (5)
Study of control of speed, acceleration, stopping, plugging, reversing, and cycling of AC and DC motors in industrial applications. (includes lab) Prerequisite or Corequisite: EET 316.

EET 320 – PROCESS CONTROL TECHNOLOGY (5)
A concise and modern treatment of the fundamentals of process control technology. Introduction to root-locus, Bode diagrams, and stability concepts. Applications to industrial operations as controlling pressure, temperature, humidity, etc. Prerequisite: EET 316.

EET 325 – REVIEW OF ELECTRONIC CONCEPTS (5)
A review of AC, DC, and solid state principles. The purpose is to update the practicing technician to allow him to continue in other advanced electronic courses at the University. Will be taught only if demand is adequate to fill the course. Prerequisite or Corequisite: MAS 321 or MAS 301 or equivalent.

EET 328 – SOLID STATE DEVICES (5)
Study of virtually all modern semiconductor devices with applications. MOSFET, photodetectors, thyristors, unijunction transistors, special diodes, etc. Prerequisite: EET 325 or equivalent.

EET 329 – PULSE AND DIGITAL CIRCUITS (5)
An introduction to non-linear circuits including logic gates, multivibrators, waveshaping, trigger circuits, sweep generators, clipper and clamper circuits, etc. (includes lab) Prerequisite: EET 325 or equivalent.

EET 336 – ELECTROMECHANICAL INSTRUMENTATION (5)
Theory, operation, maintenance, and interfacing of electromechanical and pneumatic instruments within electronic monitoring and control systems. (includes lab) Prerequisite: EET 320.

EET 340 – MODERN COMMUNICATION TECHNOLOGY (5)
Definitions, basic concepts and applications of analog and digital modulation techniques. Modulators for generating various signals and demodulators for information recovery are studied. Quantization. Decoding. Effect of noise in communication systems. Prerequisite: EET 316.

EET 342 – TRANSMISSION SYSTEM FOR COMMUNICATION (5)
Terminology, definitions and methods by which transmission objectives for message channels are established. Noise and its measurement. Crosstalk. Analog and digital transmission lines wideband data transmission. (includes lab)

EET 415 – ELECTRICAL POWER SYSTEMS (5)
Components of power systems including control of power and frequency, load flows, fault analysis, protection, etc. (includes lab) Prerequisite: EET 316.

EET 416 – ADVANCED CIRCUIT ANALYSIS II (5)
Continuation of Laplace transform techniques, complex frequency and transformed circuits. Time and frequency response analysis. Applications to electrical and electronic circuits. Prerequisite: EET 316

EET 420 – PROCESS CONTROL INSTRUMENTATION (5)
Study of electronic instruments and measurement systems and their relation to process control. Sensors, recording devices, transmission channels, and noise affecting the data collection system are studied. Basic theory and operation of process control components, such as tachometers, synchros, error detectors, servomotors, etc. (includes lab) Prerequisite: EET 320.

EET 422 – ADVANCED CONTROL SYSTEMS (5)
Applications of root-locus techniques and Bode diagrams to the analysis and design of practical industrial process control systems. Use of analog and digital computers in process control. Digital and

sampled data control system. Compensating techniques. AC and hybrid systems. (includes lab) Prerequisite: EET 320.

EET 428 – INTEGRATED CIRCUITS ANALYSIS AND DESIGN (5)

Design constraints and characteristics of linear and digital integrated circuits. Prerequisite: EET 316 and EET 328 or equivalent.

EET 430 – INTEGRATED CIRCUITS DESIGN APPLICATIONS (5)

Design and applications of state-of-the-art integrated circuits. Designing systems from various IC's. Comparison of different IC's from the SSI, MSI, and LSI areas. (includes lab) Prerequisite: EET 428 or equivalent.

EET 440 – DATA COMMUNICATION TECHNOLOGY (5)

Study of recently discovered, economically attractive data-communications techniques. Analysis and design of systems transmitting efficient digital information. Applications such as computer communication and business machines to computer communications are stressed. Introduction to error control and error correcting codes. Prerequisite: EET 340.

ENGINEERING TECHNOLOGY DIVISION

MECHANICAL ENGINEERING TECHNOLOGY COURSES

MET 302 – MANUFACTURING NUMERICAL CONTROL (5)

Methods used in, application of and limitations of the programming of numerical control machine tools using manual and computer assisted methods. The three basic elements of an N/C system—input, output, machine—are emphasized. Prerequisite: Course in machining and FORTRAN.

MET 304 – JIG AND FIXTURE DESIGN (5)

Application of principles in the design and construction of drilling, milling, reaming and assembly jigs and fixtures; information related to materials, heat treatment and cost estimating. Gaging characteristics, selection, and design for interchangeable manufacturer.

MET 308 – SHEET METAL LAYOUT (5)

Techniques utilized in layout and fabrication of sheet metal parts. (includes lab)

MET 310 – FLUID POWER (5)

A study of the development, transmission and utilization of power through fluid power circuits and controls. (includes lab).

MET 351 – DYNAMICS (5)

Study of the motion of particles and members applied to technical problems. Impact momentum and mechanical energy. (includes lab) Prerequisite: MAS 302 or equivalent.

MET 353 – BASIC MATERIALS (5)

A study of ferrous and nonferrous metals and alloys. Includes atomic structure, bonding, and arrangements of atoms; phase diagrams; reactions within solid materials; and the interrelation of these to show how structure determines the properties of a material.

MET 359 – MECHANICAL CODES (3)

A survey of pertinent mechanical codes as they relate to air conditioning and refrigeration.

MET 360 – MECHANICAL SYSTEMS IN CONSTRUCTION (3)

A survey of plumbing, heating and cooling as applied to residential, commercial, industrial and public buildings. Basic principles concerning comfort, thermal types of equipment and systems, space requirements, duct layout, air cleaning, psychometrics, and energy sources are studied. Water supply and treatment, drainage systems, load calculations are covered. Study of codes and standards, local and state laws and regulations are included, together with system maintenance and servicing.

MET 361 – HEAT TRANSFER (5)

Fundamentals of heat flow, conduction, free and forced convection, radiation, and basic concepts of laminar and turbulent flow theory, condensation and evaporation are covered. Basic definitions and concepts relevant to applied thermodynamics, the first law of thermodynamics, general energy equations for non-flow and flow processes, reversibility, gas and vapour properties, the second law of thermodynamics, entropy power cycles, combustion, power plants, gas compressors, expanders, and refrigeration are investigated. (includes lab) Prerequisite: MAS 302 or equivalent.

MET 362 – MECHANICAL DESIGN (5)

This course relates the application of strength of materials theory to the design of machine elements. Principles of material design are introduced and stresses in elementary machine members investigated. Emperical factors in design are considered. Impact and shrink stresses, mechanical fasteners, fittings, chains, belts, gears, spring selection and lubrication are covered. Prerequisite: CSN 350 or equivalent.

MET 363 – AIR CONDITIONING REFRIGERATION PRINCIPLES (3)

The theory operation and control of heat pump cooling and heating chemical absorption cooling and steam jet refrigeration systems. Prerequisite: MET 361 or equivalent.

MET 459 – APPLIED THERMODYNAMICS (5)

A review of heat transfer fundamentals and the introduction of thermodynamic equations for gases and vapours, gas-vapour mixtures, drying, and air conditioning processes, thermodynamics of combustion, modified and improved power plant equipment, heat balance, factors preventing the realization of theoretical performance in heat engines, and refrigeration and heat pump systems are covered. Prerequisite: MET 361 or equivalent.

MET 460 – ENERGY SYSTEMS (5)

Review of theory and engineering aspects of conventional energy conversions systems, fuels and combustion, fossil fuels, and nuclear power plants, Mechanical Engineering aspects of direct energy conversion, thermoelectric devices, thermionic generators, magnetohydronomics, electrogas dynamic converters, fuel and solar cells, wind and tidal power. Prerequisite: MET 459 or equivalent.

MET 550 – CORROSION (5)

Mechanisms of corrosion of metals in various environments. Corrosion prevention and control. Prerequisite: MET 353 or equivalent.

MET 560 – ENERGY ALTERNATIVES (5)

This course involves a study in depth of alternative energy forms. Tidal, solarwind and other natural power sources are analyzed in terms of international, economic, social, cultural and political impact. Communications with various relevant organizations are maintained during the course through the special energy resources center at Florida International University. Prerequisite: MET 460 or equivalent.

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Community Affairs

Through the Office of Community Affairs the University reaches out to the world around it. Its six divisions, each specialized in its own way, extend the fertile fields of academe into the concrete complex of a megapolis and even across the waters to foreign lands.

International Affairs Center

The prime function of the International Affairs Center of Florida International is to assist all elements of the University in acquiring an international dimension, whether it be in Florida or abroad, curricular or extra-curricular.

It has become traditional for like centers in other universities to create separate staffs and projects which remain on the periphery of student and faculty concerns. Florida International's non-traditional approach seeks total immersion of the University in international affairs. The goal is to make of the University as a whole an international center. To achieve this, the staff of the Center serves alternately as advocate, lobbyist, convener, planner, broker and fund raiser.

A principal premise upon which the Center operates is that the most valid international activities are those which are multi-disciplinary. For the Center's purposes, multi-disciplinary means that not only are both faculty and students to be brought in, but community groups and resources as well. Priority emphasis is given to those activities where two or more schools or departments of the University can be involved.

If there is one broad discipline around which the University's internationalism clusters it is the institution's relationship with international students. The Center assists all elements of the University in seeing that the international student feels welcome at Florida International.

The Center aids all parts of the University in the research of the practical problems which face the international community.

The promotion of faculty and student travel and study abroad is also a function of the Center. In this regard, the Center acts as a clearing house for programs sponsored by the University as well as for those sponsored by such organizations as the State University System, American Association of State Colleges and Universities, and International Institute of Education.

Environmental and Urban Problems Center

The establishment in 1972 of a Joint Center for Environmental and Urban Problems by Florida International University and Florida Atlantic University at Fort Lauderdale was based on the premise that many of South Florida's urban and environmental problems must be approached on a regional basis – that they know no political boundaries. As a catalyst in coordinating and supporting private and public efforts to solve these problems, the Center has both research and service responsibilities.

Research results, produced at the Center and elsewhere, are made available to public and private agencies attempting to find and apply solutions to urban and environmental problems. As a service organization, the Center provides professional assistance, maintains inventories of needs and scientific manpower availabilities, disseminates information, and facilitates communication among groups concerned. The Center publishes a bimonthly magazine, Florida Environmental and Urban Issues; and a Spanish language edition: ¿Estamos Destruyendo El Futuro?

Special effort is concentrated on providing services to the executive and legislative branches of state government since they are the key element in the

solution of urban and environmental problems which increasingly have a regional character.

Decisions must be made in the next decade on such critical areas as transportation, pollution control, land use, housing, and the design of a regional government system capable of effective problem solving. University faculties have many persons whose talents and training can aid in this effort. By enlisting their expertise, the Center can help bridge the gap between resources and needs.

Citizens' groups are generally over-supplied with ideas and imagination, and grossly under-supplied with facilities and mechanical assistance. Their need for assistance in identifying problems or proposing solutions is minimal. Indeed, they are presently the major source of our awareness of environmental and urban problems. They do, however, greatly need facilities for communicating with each other and with government and para-governmental agencies, for identifying other interested individuals, and for gaining information for more effective action. The Center is charged with looking to all these needs.

Active research programs are fostered by the Center at both Florida International University and Florida Atlantic University. This "in-house" research is normally carried out at the universities, rather than at the Center itself, to avoid duplication of facilities.

Research projects initially funded for the Center cover such varied areas as:

Noise Pollution
Short Term Forecasts of Criminal Activity in Florida
Pollution in Marine Waters Adjacent to Sewage Outfalls
Rent Differentials Among Racial and Ethnic Groups in Dade County, Florida
Automobile Exhaust Pollutants
Sickle Cell Anemia and Genetic Counseling
Physician Location in Southeast Florida
Juror Selection

Health, Physical Education, Recreation and Athletics

Recognizing that intellectual growth and physical vigor are not incompatible but necessary to the total development of the individual, Florida International provides you with opportunities to participate in a wide range of physical activities. Taking maximum advantage of South Florida's beautiful year-round weather, the Division of Health, Physical Education, Recreation and Athletics has developed programs in four areas — recreation activities, and intramural, club and intercollegiate sports.

Available to you are tennis courts, outdoor handball and paddleball courts, multi-purpose recreation fields, a conditioning room, and numerous off-campus facilities such as bowling alleys and golf courses.

Intramural sports include touch football, softball, basketball, table tennis, badminton, track and field — and many others. An intramural handbook lists all the opportunities.

Among the popular club sports are lacrosse, judo, cross country, track, basketball, scuba diving, bowling, fencing and horseback riding.

Women's intercollegiate sports include volleyball, softball, and golf. The men's varsity program encompasses soccer, wrestling, baseball, tennis and golf.

If you wish further information on any of these activities, you are urged to contact the Division of Health, Physical Education, Recreation and Athletics.

Special Programs

The Division of Special Programs houses permanent outreach activities which are university wide in scope. These continuing interdisciplinary programs draw on the entire teaching faculty and serve the entire state community. The Institutes for Labor and Women and the External Degree program provide continuity in programs which would otherwise be scattered throughout the academic and service units.

Special Programs institutes develop when the need is expressed to collect a variety of related courses and activities under the umbrella of a single administrative unit. In all instances, the courses and activities cross college and school lines requiring major coordination. In addition to the administrative function, the institutes serve as "Idea Centers" and motivating forces.

In addition to its regular programs, the division regularly serves as a short term project center for various university functions such as Voter Registration, the Ponce de Leon Prize, and "America and the Future of Man" — a course by newspaper series.

The Division's on-going programs are The Institute for Labor Research and Studies, The Institute for Women, and the School of Independent Studies' External Degree Program.

SCHOOL OF INDEPENDENT STUDIES' EXTERNAL DEGREE PROGRAM

The Florida Board of Regents has authorized the School of Independent Studies at Florida International University to administer the State University System's External Degree Program. This statewide authorization enables students to take advantage of all educational resources throughout Florida, without requiring residency on any campus. It is a self-directed, non-residential program for residents of the State of Florida.

Individual study plans are designed for each student in the form of an Educational Contract. In the Contract, the student is awarded credit for previous academic experience and for previous work and other life experiences. The Contract also specifies the program of study outlining what remains to be done for the completion of a baccalaureate degree. Students may enroll in the program and begin their course of study at any time. The length of time required for each student will vary according to the amount of credit needed for completion and the speed with which the individual student wishes to work.

PROGRAMS OFFERED

The External Degree Program is operated through the faculty of the regular departments and divisions in Florida International's college and schools. The

degrees offered are the same degrees as the regular degrees offered by the college and the schools, but they are achieved through alternative means. All degrees offered by the College of Arts and Sciences, the School of Health and Social Services, the School of Technology, the School of Business and Organizational Sciences, and the School of Hotel, Food and Travel Management may be earned through the External Degree Program.

NON-TRADITIONAL LIFE EXPERIENCES

Many persons have accumulated non-college experiences that can be translated into college credit. By various methods of evaluation, our faculty is able to assess a student's competence level and grant advanced standing accordingly. Methods of evaluation range from the standardized College Level Examination Program (CLEP) to individual written and oral presentations before persons with established credentials in the disciplines. There is no minimum or maximum number of credits the faculty may award.

Examples of work and other life experiences which may be considered for credit are: In-service training, short courses, continuing education, correspondence studies, seminars, travel, and professional occupational experience.

INDEPENDENT STUDY – NON-RESIDENTIAL WORK

Although most External Degree students take some formal classroom work as part of the Educational Contracts, classroom instruction is not required. When it is clear that classroom work is unsuitable or impossible for a particular student, arrangements for Independent Study, conducted at home or on the job and off of any university campus, are worked out through reading lists, research papers, and educational projects.

ENTRANCE REQUIREMENTS

1. Florida Residency.
2. Completion of two years of college studies or the equivalent.
3. Commitment to independent study.
4. Submission of detailed application forms.
5. Acceptance as an External Degree student by a faculty adviser.
6. An initial interview of approximately one half day.

FEES

Charges listed under fee section of catalog.

FINANCIAL AID

The External Degree Program has been approved for scholarships, loans, and Veterans benefits. For detailed information, contact: Student Financial Aid.

UNION FOR EXPERIMENTING COLLEGES AND UNIVERSITIES UNIVERSITY WITHOUT WALLS

Florida International University is a participating member of the Union for Experimenting Colleges and Universities. Through the Union's University Without Walls (UWW) program, FIU has received Federal assistance to provide

special services for high risk, low income, disadvantaged and minority group students.

INSTITUTE FOR LABOR RESEARCH AND STUDIES

The Institute for Labor Research and Studies is designed to respond to the educational needs of the labor movement by providing classroom programs and research and consulting services to labor organizations and their members. In addition to offering both credit and non-credit courses, the institute individualizes leadership training programs for unions and employee associations. It provides experimental programs related to collective bargaining and arbitration procedures in both the public and private sectors.

INSTITUTE FOR WOMEN

The Institute for Women develops special courses, seminars, and workshops on issues of particular interest to women. It encourages women to take affirmative action on their own behalf. The Institute brings women together to design and conduct their own educational programs, to prepare for re-entry into the work force or formal education system, to develop their management skills, and to investigate opportunities for fulfillment and self-improvement through purposeful volunteer activities in the community.

University Relations and Development

The Division of University Relations and Development has a major responsibility for the University's interface with the community. The Division's responsibilities include development, alumni affairs, information services and publications.

DEVELOPMENT

Systematic and successful annual giving programs make the difference between an adequate university and a great one. This "margin for excellence" must come from private sources. It is the responsibility of the Development Department to provide this opportunity for a need and a desire to come together.

The Florida International University Foundation, Inc. was established December 16, 1969 to "encourage, solicit, receive and administer gifts and bequests of property and funds for scientific, educational and charitable purposes, all for the advancement of Florida International University and its objectives."

The Vivas Las Artes was established in the fall of 1973 to develop scholarship funds and to provide supplementary specialized equipment for the Fine Arts Department.

The Sunblazers Club was formed in 1974 to assist the Intercollegiate Athletic Division in its efforts to provide a superior sports and recreation program for University students.

ALUMNI AFFAIRS

The director of Alumni Affairs maintains contact with the University students who have left the campus. Programs and publications especially prepared for alumni originate in this department. Since students on a metropolitan campus have easy access to the campus, an individual may be alternately a student or an alumnus throughout a lifetime. Maintaining a continuing relationship with these students is the function of this department.

INFORMATION SERVICES

Informing the various publics of the University what the University is doing is the objective of the office for Information Services. The general public is served by material produced for mass media. The Ivory Tower, a bi-weekly, gives information to a selected public. The Blue Bulletin provides general information three times a week for all staff. A speakers bureau fills still another information gap.

PUBLICATIONS

A variety of publications is needed to supply information about the University. Some of these are for the benefit of the University family. Others are for special audiences among the general public and still others are for the public at large. All publications are not prepared in the office of publications but all are coordinated by it.

University Services and Continuing Education

The Division of University Services and Continuing Education utilizes all available means for extending educational opportunities to all those who can benefit from such experiences.

With the knowledge explosion of our times, the professional has an extremely short period living comfortably with learning acquired through regular university and college matriculation.

Through the Division of University Services and Continuing Education, Florida International provides professional and paraprofessional personnel with opportunities to return for intensive short-term and long-term credit and non-credit educational experiences, enabling them to keep abreast of the latest developments in their professions.

Through this Division the outreach and community service functions of this university have taken on new dimensions as Florida International seeks to serve the needs and meet the issues of the Community. Some of the programs undertaken have been Migrant Manpower Delivery System, Florida Migratory Child Compensatory Program, Human Relations Training for Governmental Employees, the Urban Agent program and Human Relations Training for Teachers, Social Educators and Allied Professionals.

The operating units of the division are the Departments of Conferences and Off Campus Credit Activities and the School Service Center.

CONFERENCES: Non-credit Programs

All non-credit activities (conferences, seminars, workshops and short courses) are administered for the University by the Department of Conferences. These educational activities are structured by the conference staff to meet clientele interests and needs. The Department's mission is to assist individuals and groups in their quest for lifelong learning.

OFF-CAMPUS CREDIT COURSES

The Department of Off Campus Credit Courses serves public schools, business, and industry, government units and community audiences in cooperation with the academic units of the University. Program staff assists in determining the needs for specialized courses, and then follows through in coordinating the needs with the total resources of the University.

SCHOOL SERVICE CENTER

The School Service Center is intended to serve public schools in ways other than traditional course/degree programs. The School Service Center will be responsible to (1) survey educational requirements of public schools in Florida International University's service area and (2) to design programs utilizing total university resources to help meet such requirements. It affords a mechanism for liaison between public schools and total university staff. The Center, in conjunction with the respective units of the University, sponsors seminars, conferences, workshops, non-credit courses and consultative services.

CREDIT COURSES

The Division's Director of Credit Course Work serves public schools, business and industry, government units and community audiences in cooperation with the academic units of the University. The Director assists in determining the needs for specialized courses, and then follows through in coordinating the needs with the total resources of the University.

NON-CREDIT CLASSES, CONFERENCES AND INSTITUTES

Professional and Developmental Educational Activities (Non-credit Classes, Conferences, Institutes and Seminars) for community groups are coordinated and administered by the Division. Such educational experiences will be structured by the University upon request, determination of need and availability of resources. The Division of University Services has been operational in the area of conferences and institutes since the fall of 1971.

INDEPENDENT OR CORRESPONDENCE STUDY

Independent or correspondence study is provided by the Division of University Services and Continuing Education through the Division of Independent Study of The State University System of Florida.

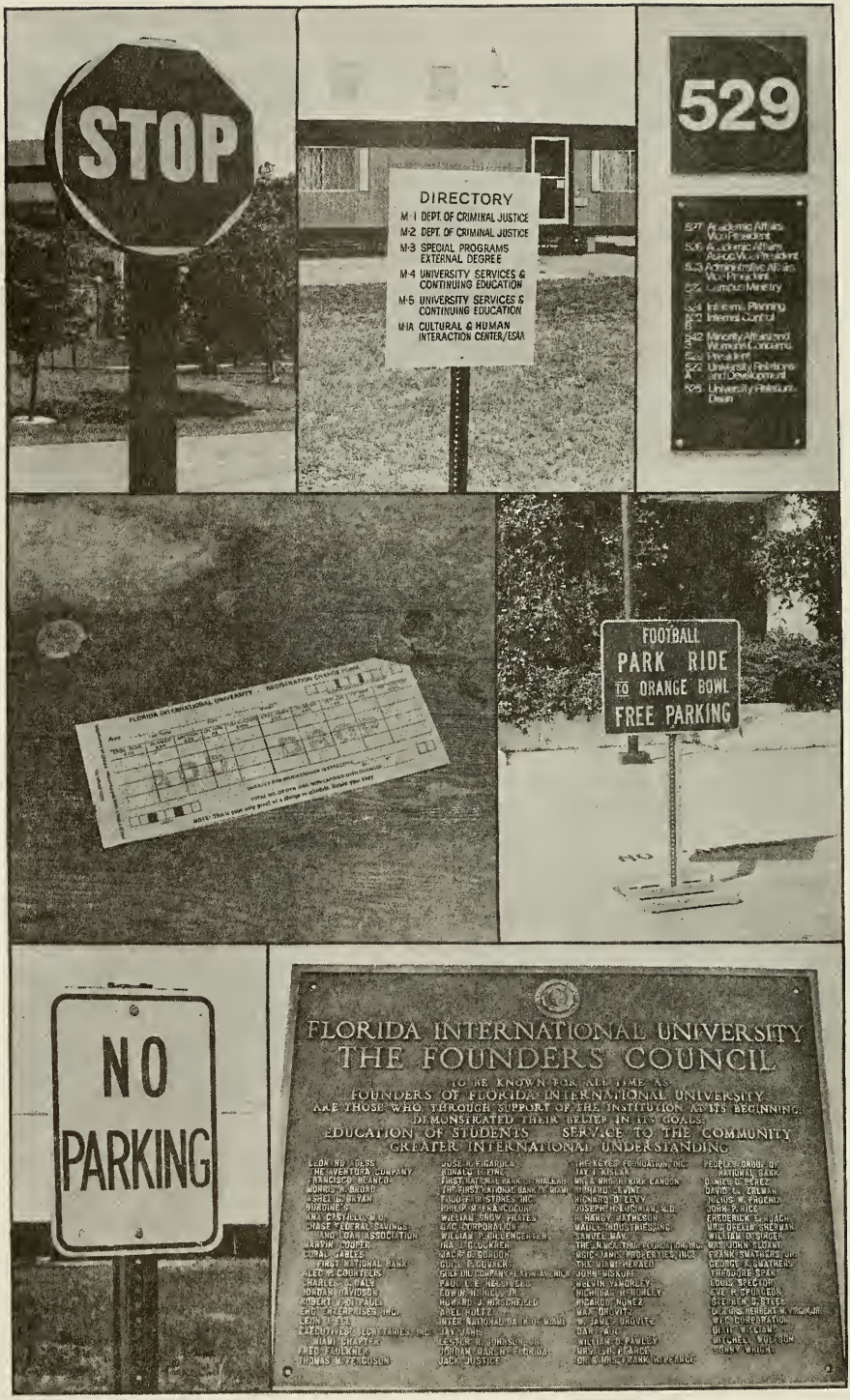
EDUCATIONAL MEDIA

With today's new knowledge, the application of technology to education has only begun; the potential for broader application is extensive. It is incumbent upon educational planners to apply technology to education wherever it can be utilized to improve quality and to effect economies. Thus, the various forms of educational media are utilized at Florida International to enrich existing instruction or to improve overall productivity. Of particular significance are media systems which do not depend upon the teacher for routine presentation of instructional material.

Utilization of educational media within the University, as it relates to instruction on the campus and for the community, is administered and coordinated by the Division of University Services and Continuing Education.

COOPERATIVE EDUCATION

A major program for students coordinated by the Division of University Services is the Cooperative Education Program. Through this program the student will be able to integrate classroom instruction with practical and valuable on-the-job experience in business, industry, governmental agencies and other areas. It is anticipated that the Cooperative Education Program will be available to qualified students in most all areas of professional interest or preparation.


STOP
DIRECTORY
M-1 DEPT. OF CRIMINAL JUSTICE
M-2 DEPT. OF CRIMINAL JUSTICE
M-3 SPECIAL PROGRAMS EXTERNAL DEGREE
M-4 UNIVERSITY SERVICES & CONTINUING EDUCATION
M-5 UNIVERSITY SERVICES & CONTINUING EDUCATION
M-IA CULTURAL & HUMAN INTERACTION CENTER/ESAA
529
FOOTBALL
PARK RIDE
TO ORANGE BOWL
FREE PARKING
NO
PARKING
FLORIDA INTERNATIONAL UNIVERSITY
THE FOUNDERS COUNCIL
TO BE KNOWN FOR ALL TIME AS
FOUNDERS OF FLORIDA INTERNATIONAL UNIVERSITY
ARE THOSE WHO THROUGH SUPPORT OF THE INSTITUTION AT ITS BEGINNING
DEMONSTRATED THEIR BELIEF IN ITS GOALS:
EDUCATION OF STUDENTS SERVICE TO THE COMMUNITY
GREATER INTERNATIONAL UNDERSTANDING

Administrative Affairs

The University family, like any other family, must have its bodily needs cared for as well as its mental and emotional. It must provide food, supplies and shelter and pay its bills. These are the provinces of the Office of Administrative Affairs.

Administrative Affairs

The Office of Administrative Affairs coordinates nine Departments structured to serve the normal administrative functions of the University.

They are:

PHYSICAL PLANNING

Provides an orderly process for providing space requirements, including requests for additional space and alterations

INTERNAL CONTROL

Maintains the Procedural Manual, conducts audits, manages records, and reviews material for University archives

CONTROLLER

Records and reports department budgets and balances, establishes procedures for student fee collection, invests funds and provides emergency funds. This department handles distribution of University ID cards to students and maintains ledger accounts for student organizations

PURCHASING

Arranges purchase of supplies, equipment, services, maintains equipment, provides facility for delivery and storage

PERSONNEL

Handles matters pertaining to those employed by the University

PHYSICAL PLANT

Moves furniture, maintains key control for protection of property, monitors bulletin boards and University vehicles, supervises telephones, provides janitorial and grounds maintenance

AUXILIARY SERVICES

Book store, duplicating center, food service

BUDGET COORDINATOR

Prepares annual operating and legislative budgets

CAMPUS SAFETY

Maintains fire protection and safety, responds to emergencies, maintains normal operations of University

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FLORIDA INTERNATIONAL UNIVERSITY

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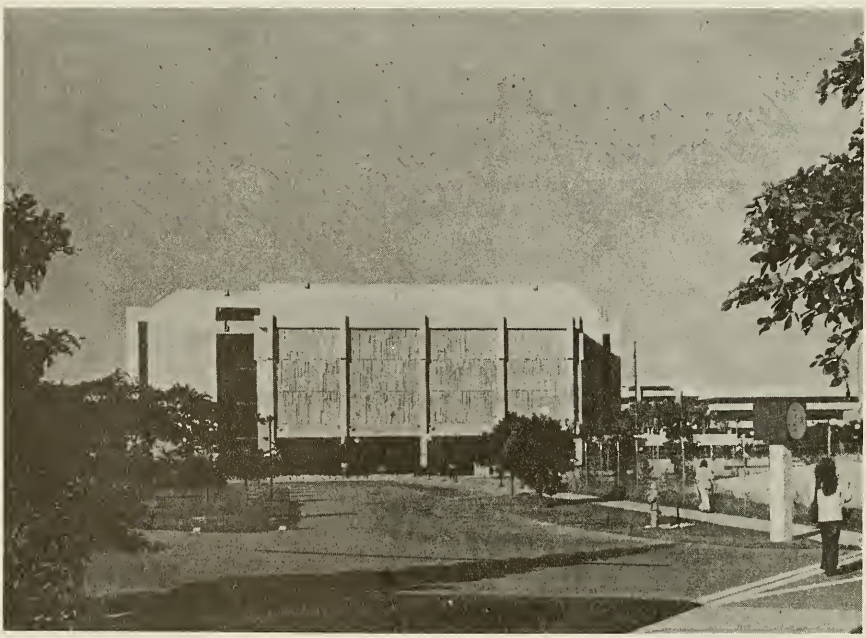

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